SECTION 12

ASSEMBLY DRAWINGS AND PARTS LISTS

12.0 GENERAL

This section contains Assembly Drawings and their associated Parts Lists for all items discussed throughout the **Model 115 Fetal Monitor Service Manual.** The information provided in this section pertains to both single-cardiotach and dual-cardiotach monitors as well as the optional Models 2115 and 2116 Data Entry Systems and the optional Recorder Boards (6808 and 6666).

12.1 PARTS REPLACEMENT

The Model 115 Fetal Monitor employs standard electronic components and hardware when practical. However, certain sub-assemblies may require special components which are available through Corometrics. Material contained in this section is intended for general reference use only and not for direct ordering of replacement parts. Questions regarding the suitability or nature of a replacement part should be resolved with the Corometrics Service Department. To expedite the clarification process, it is suggested that the following steps be taken:

1. Obtain the serial number listed on the monitor's rear panel.
2. Note any identification data on the subassembly in question. Printed-circuit boards are identified by a code printed along one edge of the board.
3. Locate and identify any components in question by referring to the Assembly Drawings and their associated parts lists presented in this section.
4. Finally, call the Corometrics Service Department at one of the following numbers:

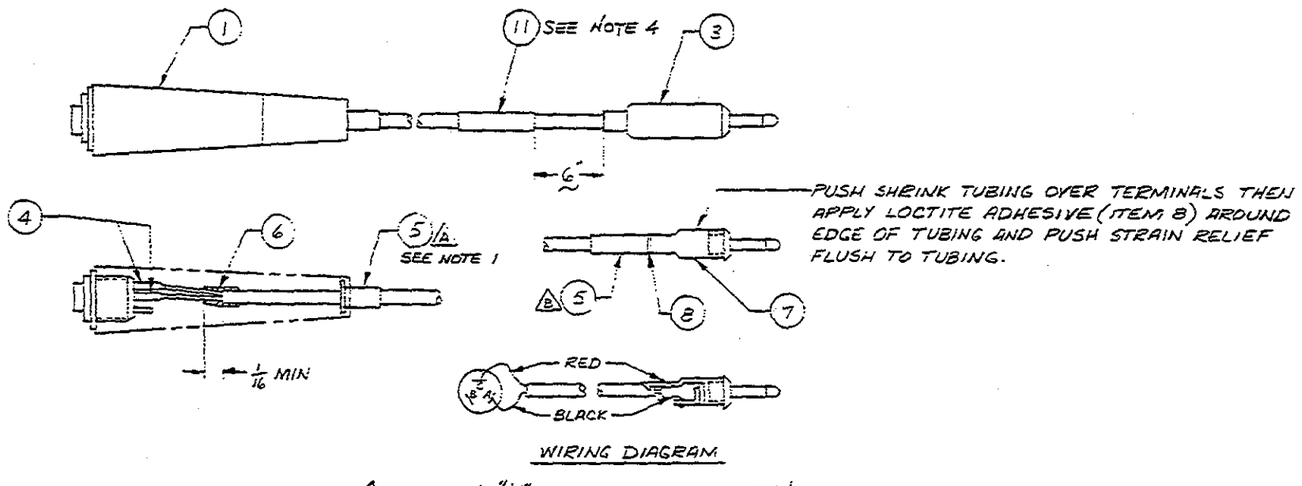
(Outside Connecticut)
1-800-243-3952

(Inside Connecticut)
Call Collect 265-5631

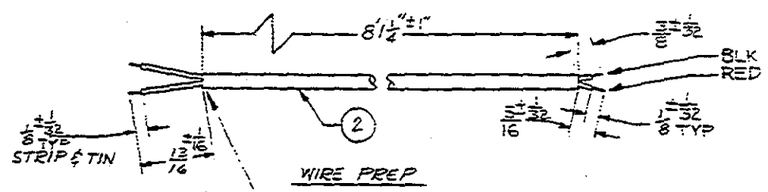
PART Nº	REV	COLOR	NEXT ASSY	MODEL	CAT. Nº
C3919A	06	BEIGE	140 TAB 1219A,E16B,1206B,1207B	110,112,140	3919AA0
C3919B	03	GRAY/BRN	1230A	115	3919BA0

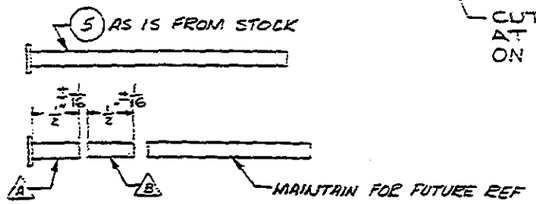
NOTES:
1. INSERT STRAIN RELIEF (ITEM 5 Δ A) THRU REAR OF SWITCH GENTLY.
2. ITEM 9 (BAG) & 10 (LABEL) NOT SHOWN.
3. *
4. * SLEEVE TO BE MARKED PER DRAWING
   B7045GA (3919AA0)
   B7045HA (3919BA0)

REVISIONS				
SYM	DESCRIPTION		DATE	APPROVAL
02	ECN 1724	ESM.	4-13-79	
03	ECN 2198	W.S.	4-24-80	
00	"B" NEW ECN 115-76	D.B.W.	6-1-83	
ECN 3129		D.B.W.	9-13-83	
*	ITEM 9 P/N WAS 410006 : REMOVED NOTE 3 ; ADDED ITEM 11 & NOTE 4 PER ECN 5196		5/4/86	
*	CHG. NOTE 4 ECN 5755	JA	4-28-87	



WIRING DIAGRAM





ITEM 5 MODIFICATION
CUT AS SHOWN

REV	QTY	A	B	REF DESIG	PART Nº	DESCRIPTION
*	1	1		11	608106	SLEEVE, MARKER 3/16 I.D.
	1	X		10	A4798BA	LABEL
	X		1	10	A4798AA	LABEL
*	1	1		9	410006	AIRCAP BAG 6 X 8 1/2
	0	0		8	160034	LOCTITE SUPERBOND 414
	.06 FT	.06 FT		7	608048	SHRINK TUBING 1/4 ID
	.02 FT	.02 FT		6	608028	SHRINK TUBING 1/8 ID
	1	1		5	608021	STRAIN RELIEF
	.02 FT	.02 FT		4	608025	SHRINK TUBING 1/16 ID
	1	1		3	210072	PHONE JACK
	S.D. FT	X		2	A5926AA	CABLE
	X	S.D. FT		2	600530	CABLE
	1	1		1	511031	SWITCH

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SEE	ABOVE
NEXT ASSY	USED ON
APPLICATION	

MATERIAL

FINISH

DRAWN D.B.W. DATE 6-1-83
CHECKED DATE 6-21-83
ENGINEER DATE
APPROVED DATE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

COROMETRICS MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE REMOTE MARK SWITCH

SIZE	DRAWING NUMBER	REV.
C	3919TAB	*

SCALE FULL SHEET 1 OF 1

QTY			ITEM	REF DESIG.	PART NO.	DESCRIPTION
4	4	4	24		B3522AA	SPACER
ø	0	0	23		160011	ECCOBOND 24
ø	0	0	22		160022	GLYPTAL
ø	0	0	21		160007	VC-1
			20			
.333'	.333'	.333'	19		605402	MAGNET WIRE
ø	0	0	18		160019	LOCTITE #242 BLUE
4	4	4	17		281201	SCREW #2-56 x 3/16 BH
2	2	2	16		A3864AA	STUD
1	1	1	15		A3516AA	P.C. BOARD
1	1	1	14		B3517B	PHONO PREAMP P.C. BOARD
1	1	1	13		B3862BA	BUTTON
1	1	1	12		A3557AA	PHONO CRYSTAL
1	1	1	11		C3858AA	WEIGHT
1	1	1	10		C3859AA	BASE
—	—	1	9	NOT SHOWN	A4802CA	LABEL
—	1	—	9	NOT SHOWN	A4802BA	LABEL
1	1	1	8	NOT SHOWN	410112	AIRCAP BAG 6 x 8 1/2
1	1	1	7		B3908AA	PROTECTIVE COVER
2	2	2	6		285005	LOCKWASHER #2
3	3	3	5		281227	SCREW #2-56 x 5/8 FIL. HD.
2	2	2	4		281200	SCREW #2-56 x 1/8 BH
1	1	1	3		B3863AA	R.F. SHIELD
1	1	1	2		C3860AA	TOP
			1			
F	E	B				

DATE BY

ECN NO. 3996LAX 3996BAX 3996AAX

REV. LET. NEXT ASSY | USED ON

APPLICATION

MATERIAL ~

FINISH ~

DRAWN V. Robles DATE 6/25/86

CHECKED B. SHOTWELL DATE 7/2/86

ENGINEER DATE 7.3.86

APPROVED DATE 7/3/86

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS

2 PLACE DECIMALS ~

3 PLACE DECIMALS

ANGLES

COROMETRICS® MEDICAL SYSTEMS, INC.

TITLE PHONO TRANSDUCER

SIZE B | DRAWING NUMBER 3996TAB | REV. *

SCALE AS NOTED | SHEET 1 of 4

SHEET 4 IS A "D" SIZE DWG

	QTY F	QTY E	QTY B	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
	.031'	.031'	—	49		608026	SHRINK TUBING
	1	1	—	48		210181	CLAMP 3-5mm
E/F NEW	11	11	—	47		210227	CONTACT, MALE 16.5mm LG.
	1	1	—	46		212134	HOUSING-PIN, OCHRE
	1	1	—	45		210178	PLASTIC RING
	1	1	—	44		210176	METAL RING, BRASS
	1	1	—	43		210180	HALF SHELL W/CLAMP 3-5mm
	1	1	—	42		210179	HALF SHELL W/TONGUE
	1	1	—	41		210183	GRIPPER 3-5 mm
	1	1	1	40		608106	SLEEVE, MARKER 3/16 DIA.
	1	1	1	39		608036	TY-RAP
	—	—	.063'	38		606405	WIRE #30 BUSS
	1	1	1	37		B3861AA	BEND RELIEF BUSHING
	—	—	1	36		608021	BOOT-BLACK
	—	—	.094'	35		605105	WIRE #24 GRN.
	—	—	1	34		210037	COLLET 5.2mm
	.031'	.031'	.063'	33		608028	SHRINK TUBING 1/8 I.D.
	—	—	.125'	32		605408	WIRE #30 GRN.
	10'	8'	8'	31		A5926AA	CABLE
	—	—	1	30		212104	CONNECTOR 12 PIN LEMO
	1	1	1	29		B3520AA	PLATE-UPPER
	1	1	1	28		B3521AA	HUB-P.C. BOARD
	1	1	1	27		B3520BA	PLATE-LOWER
	1	1	1	26		B3519AA	HUB-BUTTON
	4	4	4	25		280048	EYELET 1/16 DIA x 1/8 LG

DATE BY

ECN NO. 3996LAX DLC/7
3996BAX
3996AAX

REV. LET. NEXT ASSY | USED ON
APPLICATION

MATERIAL ~

FINISH ~

V. Sabola 6/25/86
B. SHOTWELL 7/2/86
7-2-86
7/3/86

FRACTIONS
2 PLACE DECIMALS ±
3 PLACE DECIMALS ± ~
ANGLES ±

COROMETRICS® MEDICAL SYSTEMS, INC.
WALLINGFORD, CONNECTICUT

TITLE: PHONO TRANSDUCER

SIZE B | DRAWING NUMBER 3996TAB | REV. *

SCALE AS NOTED | SHEET 2 of 4

SHEET 4 IS A "D" SIZE DWG.

QTY F	QTY E	QTY B	ITEM	REF DESIG.	PART NO.	DESCRIPTION
1	—	—	9		A48020A	LABEL
2	2	—	52		210182	SCREW M2.6 x 10
1	1	—	51		210226	CONTACT, MALE, 18 mm LG.
.167'	.167'	—	50		605055	WIRE #26 GRN.

E/F NEW

REV. LET.	ECN NO.	DATE BY	APPLICATION
	3996LAX		NEXT ASSY
	3996BAX		USED ON
	3996AAX		

MATERIAL: 2

FINISH: 2

DRAWN V. Sodala DATE 6/25/86
CHECKED B. SHOTWELL DATE 7/2/86
ENGINEER DATE 7-3-86
APPROVED P. Sacchetti DATE 7/2/86

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS
2 PLACE DECIMALS
3 PLACE DECIMALS
ANGLES
2

COROMETRICS® MEDICAL SYSTEMS, INC.

TITLE: PHONO ~~TRANSDUCER~~

SIZE: B | DRAWING NUMBER: 3996TAB | REV: *

SCALE: AS NOTED | SHEET 3 of 4

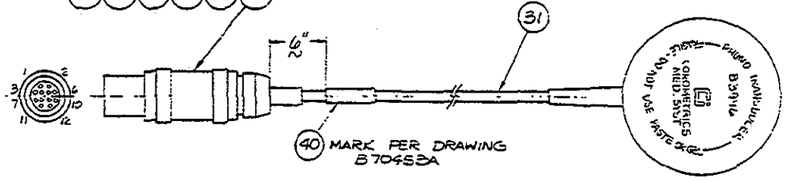
SHEET 4 5 A "D" SIZE DWG.

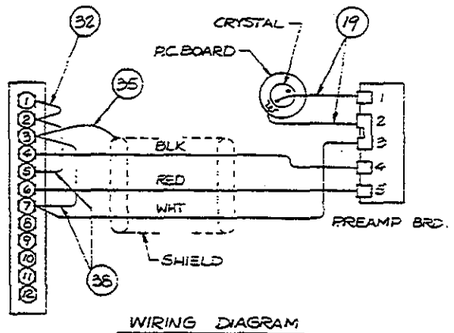
REV	ECN	DESCRIPTION	BY	DATE	CHKD	APPD
*	5269	REVISED AND REDRAWN	KS	6/24	EB	
*	—	'D' NEW RELEASE	KS	5/86	RS	
*	5544	'E' & 'F' NEW	KS	11/86	RS	

REF. REF. REF

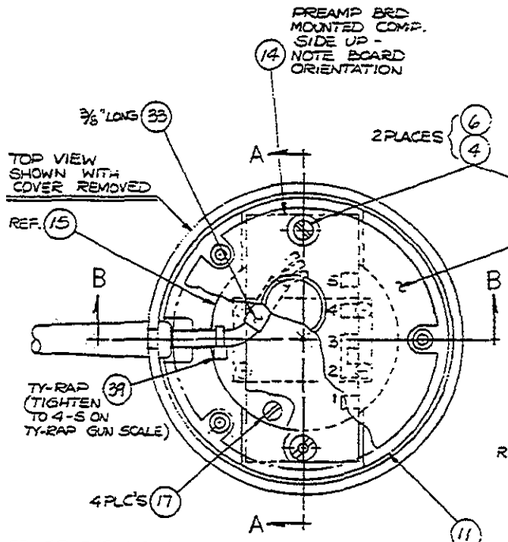
38 36 35 34 32 30

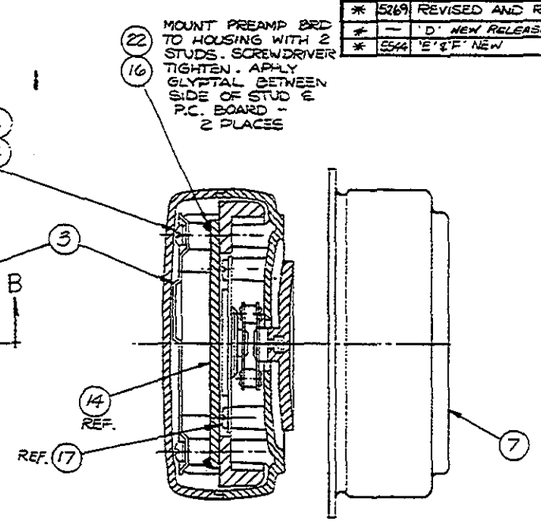
CAT. Nº 3996AAX
SCALE : NONE





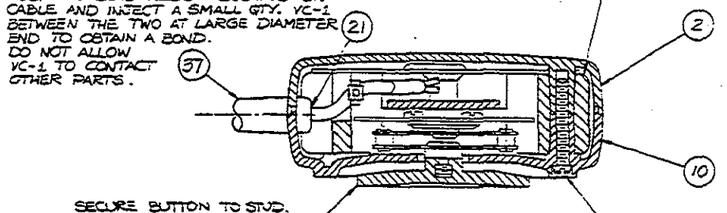
WIRING DIAGRAM



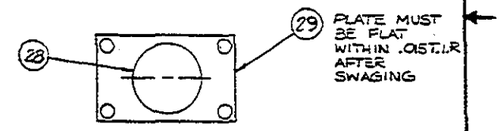

22
16
MOUNT PREAMP BRD TO HOUSING WITH 2 STUDS. SCREWDRIVER TIGHTEN. APPLY GLYPTAL BETWEEN SIDE OF STUD & P.C. BOARD - 2 PLACES
3
14 REF.
REF. 17
7

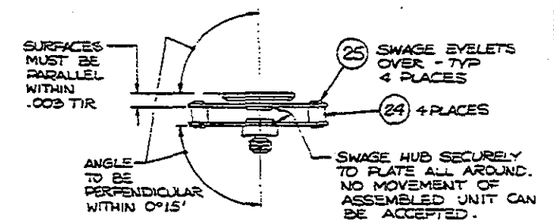
SECTION A-A
SCALE : 2X

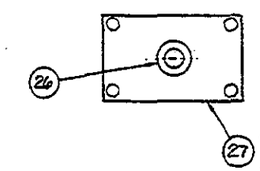
PART Nº	REV	CAT. Nº	CONNECTOR
D3996B	04	3996AAX	LEMO
D3996E	00	3996BAX	NICOLAY
D3996F	00	3996LAX	NICOLAY

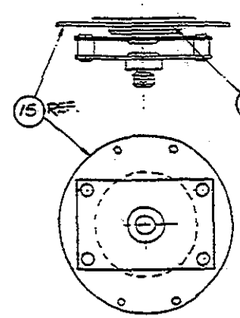

POSITION BEND RELIEF BUSHING ON CABLE AND INJECT A SMALL QTY. VC-1 BETWEEN THE TWO AT LARGE DIAMETER END TO OBTAIN A BOND. DO NOT ALLOW VC-1 TO CONTACT OTHER PARTS.
21
37
2
10
SECURE BUTTON TO STUD, FINGER TIGHT, WITH LOCTITE. DO NOT USE PLIERS, ETC. DO NOT SET BASE DOWN ON BUTTON AFTER ASSEMBLY OR PILE TRANSDUCERS ON TOP OF ONE ANOTHER. AFTER ASSEMBLY OF BUTTON PUT ON FIXTURE PROTECTIVE COVER.
13
18
5 3 PLACES
NOTE: ALL SCREWS INTO PLASTIC BASE SHOULD BE FINGER TIGHT. DO NOT OVER-TIGHTEN.

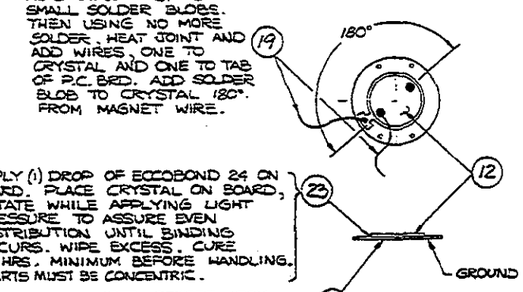
SECTION B-B
SCALE : 2X

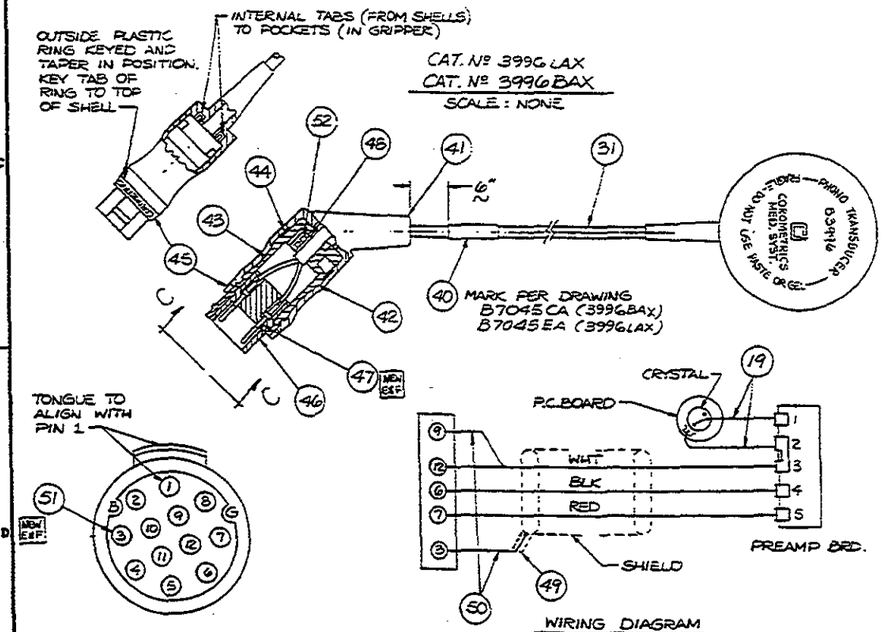



SURFACES MUST BE PARALLEL WITHIN .003 TIR
25
SWAGE EYELETS OVER - TYP 4 PLACES
24 4 PLACES
ANGLE TO BE PERPENDICULAR WITHIN 0°15'
SWAGE HUB SECURELY TO PLATE ALL AROUND. NO MOVEMENT OF ASSEMBLED UNIT CAN BE ACCEPTED.




15 REF.
23
APPLY (1) DROP OF ECCOBOND 24 ON BOARD. PLACE CRYSTAL ON BOARD, ROTATE WHILE APPLYING LIGHT PRESSURE TO ASSURE EVEN DISTRIBUTION UNTIL BINDING OCCURS. WIPE EXCESS. CURE 24 HRS. MINIMUM BEFORE HANDLING. PARTS MUST BE CONCENTRIC.
NOTE: BEFORE ASSY. ROUGH GRAIN P.C. BOARD IN ONE DIRECTION ONLY, BOTH SIDES, IN AREA TO BE CEMENTED, WITH 200 GRIT EMERY PAPER. THEN CLEAN WITH ALCOHOL.


APPLY 2" MAGNET WIRES AS SHOWN. APPLY VERY SMALL SOLDER BLOBS. THEN USING NO MORE SOLDER, HEAT JOINT AND ADD WIRES, ONE TO CRYSTAL AND ONE TO TAB OF P.C. BRD. ADD SOLDER BLOB TO CRYSTAL 180° FROM MAGNET WIRE.
19
180°
12
23
15
GROUND SIDE



VIEW C-C
SCALE : NONE

WIRING DIAGRAM

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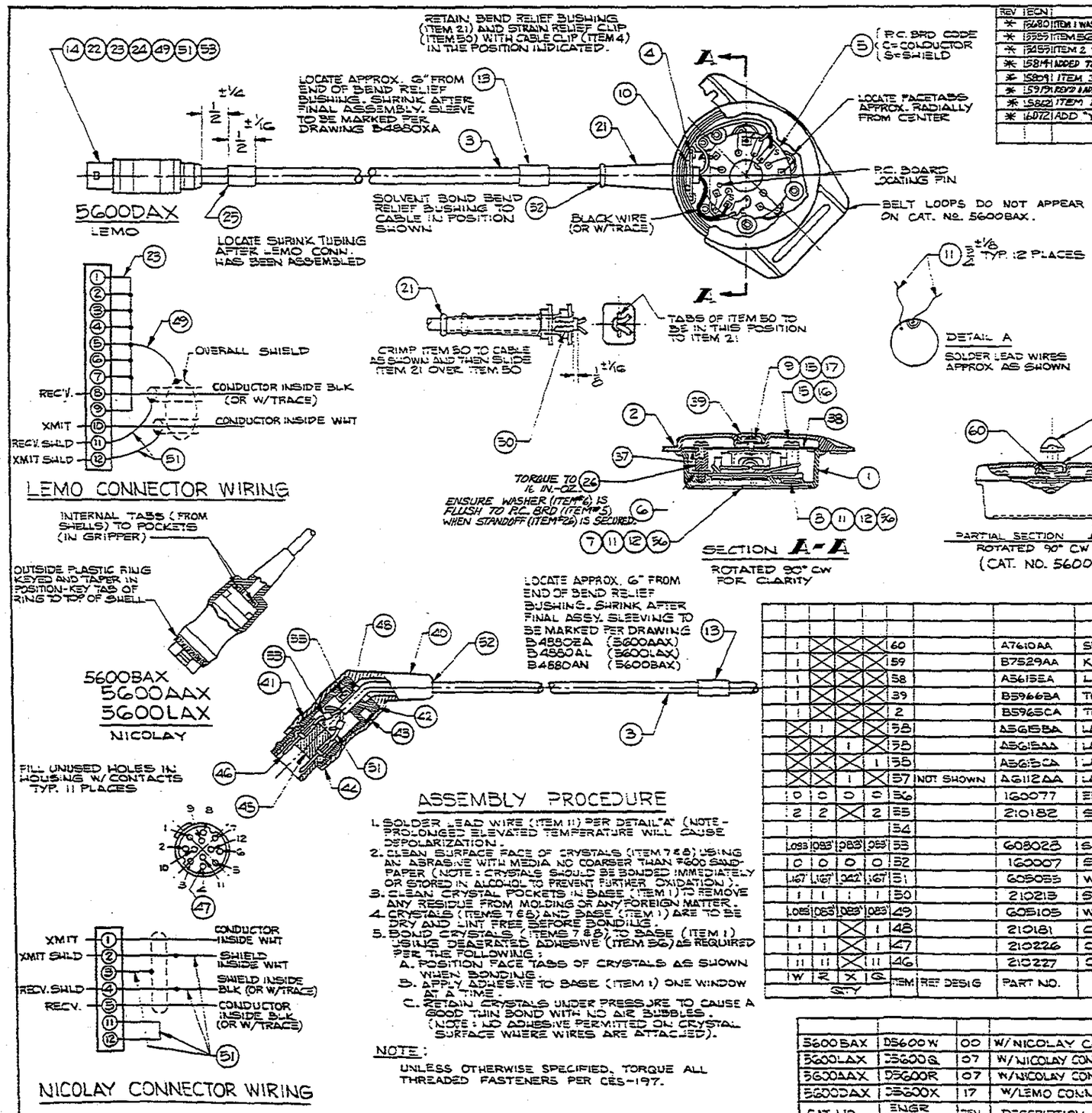
DO NOT SCALE - WORK TO DIMENSIONS GIVEN	DRAWN Kadaba 6/12/86	CORDIMETRICS® MEDICAL SYSTEMS, INC.	
	CHECKED D. SHOTWELL 6/23/86		
	ENGINEER 7-3-86	TITLE CAT. Nº 3996AAX & 3996BAX PHONOTRANSDUCER CAT. Nº 3996LAX	
	APPROVED 7-3-86		
TOL PHONO	MATERIAL N/A	FINISH N/A	SIZE D
NEXT ASSY USED ON			DRAWING NUMBER 3996TAB
APPLICATION			REV *
			SCALE 2X SHEET 1 OF 4

FIRST 3 SHEETS ARE PARTS LISTS

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
*	15680	ITEM 1 WAS 436740, ITEM 24 WAS 592944	R.S	2-4-87	BS	
*	15959	ITEM 5G WAS 1600069	R.B.	4-22-87	BS	
*	16059	ITEM 2 WAS 596540A	R.B.	6-1-87	BS	
*	15814	ADDED TORQUE NOTE TO (26)	JR	5-28-87	BS	
*	15809	ITEM 32 WAS 663894A	J.A	6-19-87	BS	
*	15970	REV'D & ADDED TORQUE NOTES; ADDED "ENSURE—SECURE"	JRP	8-28-87	BS	
*	15862	ITEM 19 WAS CC6894A	JRP	10-26-87		
*	16072	ADD "W" CAT. NO. 5600BAX (NEW)	J.A.	11-6-88		

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
*	12268	NEW	GLM	5/2/85		JCB
*	14322		J.A.	9/19/85		
*	14497		TRAR	9/19/85		DCD
*	14460		J.A.	7/19/85		
*	14648		JRP	9/19/85		PE
*	14806		GLM	9/19/85		EJL
*	14920		VS	12/85		PE
*	15316		J.A.	9/86		Sweeney
*	15469	ADD ITEMS 57 & 58 ITEM 36 WAS 410006	J.A.	9/86		DCD
*	15301	G" WAS "I". NOTE REF TO ITEM 13	J.A.	7-1-86		
		"S" NEW RELEASE	EGL	10-21-86		DCD
*	14936	"B" "C" ITEM 19 WAS AC7140A	J.A.	7-29-87		MM
*	15244	"Q" "R" NEW	VS	1-11-88		MM


RETAIN BEND RELIEF BUSHING (ITEM 21) AND STRAIN RELIEF CLIP (ITEM 50) WITH CABLE CLIP (ITEM 4) IN THE POSITION INDICATED.
P.C. BRD CODE C=CONDUCTOR S=SHIELD
LOCATE FACETABS APPROX. RADIALLY FROM CENTER
P.C. BOARD LOCATING PIN
BELT LOOPS DO NOT APPEAR ON CAT. NO. 5600BAX.
LOCATE APPROX. 6" FROM END OF BEND RELIEF BUSHING. SHRINK AFTER FINAL ASSEMBLY. SLEEVE TO BE MARKED PER DRAWING B4880XA
SOLVENT BOND BEND RELIEF BUSHING TO CABLE IN POSITION SHOWN
BLACK WIRE (OR W/TRACE)
LOCATE SHRINK TUBING AFTER LEMO CONN. HAS BEEN ASSEMBLED
5600DAX
LEMO
OVERALL SHIELD
REC'V.
CONDUCTOR INSIDE BLK (OR W/TRACE)
XMIT
CONDUCTOR INSIDE WHT
REC'V. SHLD
XMIT SHLD
LEMO CONNECTOR WIRING
CRIMP ITEM 50 TO CABLE AS SHOWN AND THEN SLIDE ITEM 21 OVER ITEM 50
TABS OF ITEM 50 TO BE IN THIS POSITION TO ITEM 21
DETAIL A
SOLDER LEAD WIRES APPROX AS SHOWN
TYP. 12 PLACES
TORQUE TO 12 IN.-OZ.
ENSURE WASHER (ITEM #6) IS FLUSH TO P.C. BRD (ITEM #5) WHEN STANDOFF (ITEM #26) IS SECURED.
SECTION A-A
ROTATED 90° CW FOR CLARITY
PARTIAL SECTION A-A
ROTATED 90° CW FOR CLARITY
(CAT. NO. 5600BAX)
INTERNAL TABS (FROM SHELLS) TO POCKETS (IN GRIPPER)
OUTSIDE PLASTIC RING KEYED AND TAPER IN POSITION-KEY TAB OF RING TO TOP OF SHELL
5600BAX
5600AAX
5600LAX
NICOLAY
LOCATE APPROX. 6" FROM END OF BEND RELIEF BUSHING. SHRINK AFTER FINAL ASSY. SLEEVING TO BE MARKED PER DRAWING
B4880ZA (5600AAX)
B4880AL (5600LAX)
B4880AN (5600BAX)
FILL UNUSED HOLES IN HOUSING W/ CONTACTS TYP. 11 PLACES
XMIT
XMIT SHLD
RECV. SHLD
RECV.
CONDUCTOR INSIDE WHT
SHIELD INSIDE WHT
SHIELD INSIDE BLK (OR W/TRACE)
CONDUCTOR INSIDE BLK (OR W/TRACE)
NICOLAY CONNECTOR WIRING

ASSEMBLY PROCEDURE

1. SOLDER LEAD WIRE (ITEM 11) PER DETAIL "A" (NOTE - PROLONGED ELEVATED TEMPERATURE WILL CAUSE DEPOLARIZATION).
2. CLEAN SURFACE FACE OF CRYSTALS (ITEM 7 & 8) USING AN ABRASIVE WITH MEDIA NO COARSER THAN #600 SAND-PAPER (NOTE: CRYSTALS SHOULD BE BONDED IMMEDIATELY OR STORED IN ALCOHOL TO PREVENT FURTHER OXIDATION).
3. CLEAN CRYSTAL POCKETS IN BASE (ITEM 1) TO REMOVE ANY RESIDUE FROM MOLDING OR ANY FOREIGN MATTER.
4. CRYSTALS (ITEMS 7 & 8) AND BASE (ITEM 1) ARE TO BE DRY AND LINT FREE BEFORE BONDING.
5. BOND CRYSTALS (ITEMS 7 & 8) TO BASE (ITEM 1) USING DEAERATED ADHESIVE (ITEM 36) AS REQUIRED PER THE FOLLOWING:
   A. POSITION FACE TABS OF CRYSTALS AS SHOWN WHEN BONDING.
   B. APPLY ADHESIVE TO BASE (ITEM 1) ONE WINDOW AT A TIME.
   C. RETAIN CRYSTALS UNDER PRESSURE TO CAUSE A GOOD THIN BOND WITH NO AIR BUBBLES. (NOTE: NO ADHESIVE PERMITTED ON CRYSTAL SURFACE WHERE WIRES ARE ATTACHED).

NOTE:

UNLESS OTHERWISE SPECIFIED, TORQUE ALL THREADED FASTENERS PER CES-197.

QTY				ITEM	REF DESIG	PART NO.	DESCRIPTION
				60		A7610AA	SPACER
				59		B7529AA	KNOB, TOP
				58		A5615EA	LABEL
				39		B5966BA	TOP CAP - MODIFIED
				2		B5965CA	TOP COVER - MODIFIED
				58		A5615BA	LABEL
				58		A5615AA	LABEL
				58		A5615CA	LABEL
				57	NOT SHOWN	A6112AA	LABEL - IMP NOTICE
				56		160077	EPOXY ADHESIVE MIX. FROM EPOXY
				55		210182	SCREW M2.6x10
				54			
.093	.093	.093	.093	53		608023	SHRINK TUBING 1/8" ID BLK
				52		160007	SOLVENT (VC-1)
.167	.167	.242	.167	51		605055	WIRE #26 GRN
				50		210213	STRAIN RELIEF CLIP
.085	.085	.093	.093	49		605105	WIRE #24 GRN
				48		210181	CLAMP (3-7mm)
				47		210226	CONTACT, MALE .9mm
				46		210227	CONTACT, MALE 1.6-3mm
W	R	X	G	ITEM	REF DESIG	PART NO.	DESCRIPTION

QTY

QTY				ITEM	REF. DESIG.	PART NO.	DESCRIPTION
				45		212134	HOUSING PIN OCHRE
				44		210178	PLASTIC RING
				43		210176	RING 21 x 5
				42		210186	HALF SHELL W/CLAMP 5-7mm
				41		210179	HALF SHELL
				40		210184	GRIPPER 5-7mm
				39		B5966AA	TOP CAP
				38		A5930AA	PLATE
				37		A5931AA	SEAL RING
				36	NOT SHOWN	410112	AIRCAP BAG
				35			
				34			
				33			
				32	NOT SHOWN	563898A	INSTRUCTION SHEET
				31			
				30			
				29			
				28			
				27			
3	3	3	3	26		A5929BA	SPACER POST #2-56 x .418 LG
		.242		25		608059	SHRINK TUBING HSI01 ORANGE
				24		210037	COLLET 5.2mm
		.083		23		606405	BUS WIRE #30
				22		212104	CONN. LEMO 12 PIN
				21		B5795CA	BEND RELIEF BUSHING
				20			
				19	NOT SHOWN	C7514BA	ABDOMINAL STRAP - BLUE
0	0	0	0	15		P1029AA	ULTRASOUND BOOKLET
				17		285022	FLATWASHER #4 S.S.
3	3	3	3	16		285069	LOCKWASHER #4 S.S.
3	4	4	4	15		284007	SCREW #4-40 x 1/4 BHMS
		0		14		160019	LOCTITE #242 BLUE
				13		608080	SLEEVE MARKER
0	0	0	0	12		340066	SOLDER
1'	1'	1'	1'	11		605402	MAGNET WIRE #3
0	0	0	0	10		130052	ADHESIVE 910
0	0	0	0	9		160022	GLYPTAL
5	5	5	5	8		B2713DA	CRYSTAL - RECEIVER
1	1	1	1	7		B2713CA	CRYSTAL - TRANSMITTER
3	3	3	3	6		A6019BA	SPRING WASHER
				5		C7731BA	P.C. BOARD
1	1	1	1	4		A5529AA	CLIP-CABLE RETAINING
8.3'	8.3'	8.3'	10.3'	3		B7754CBA	CABLE-TBL COAX, TBL SHLD
X	1	1	1	2		D7965BA	TOP COVER
1	1	1	1	1		D4387MA	BASE
W	R	X	Q	ITEM	REF. DESIG.	PART NO.	DESCRIPTION

QTY

CAT. NO.	ENGR DWG. NO.	REV.	DESCRIPTION	USED ON
5600BAX	D5600W	00	W/NICOLAY CONN.	115
5600LAX	D5600S	07	W/NICOLAY CONN.	115
5600AAX	D5600R	07	W/NICOLAY CONN.	115, 142, 145
5600DAX	D5600X	17	W/LEMO CONN.	111, 112, 140

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DRAWN	JOE ALBINO	DATE 8-2-85
ENGINEERING		DATE 8-2-85
MANUFACTURING		DATE 8-2-85
QUALITY ASSURANCE		DATE 8-2-85

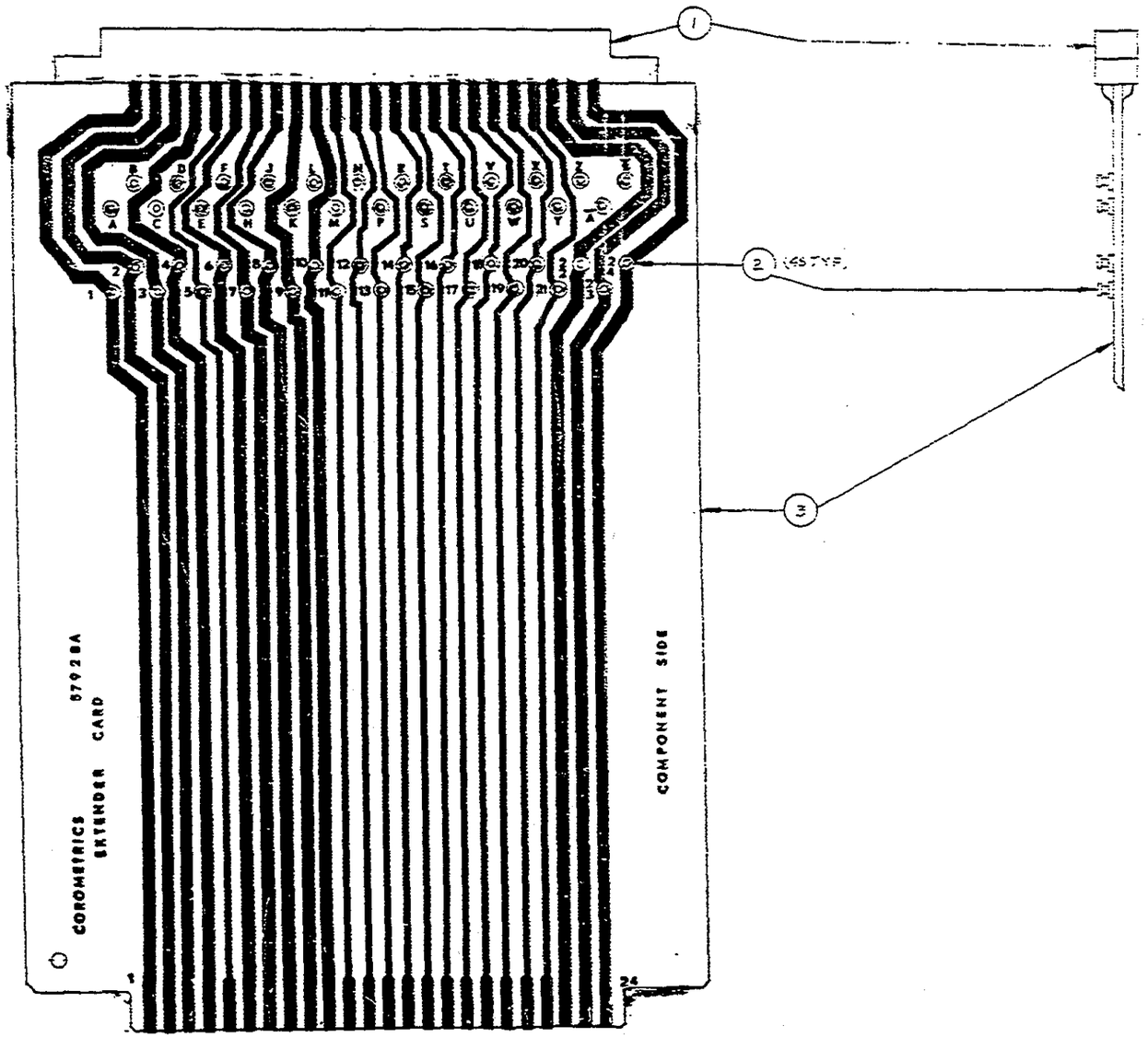
COROMETRICS® MEDICAL SYSTEMS, INC.

TITLE FINAL ASSEMBLY ULTRASOUND TRANSDUCER (ROUND CABLE)

MATERIAL	FINISH
~	~

SIZE D | DRAWING NUMBER 5600TAB | REV *

SCALE FULL | 1/ASSY | SHEET 1 OF 1



REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	LDR	7/19/83

ITEM	QTY	REF. DESIG.	PART NO.	DESCRIPTION
3	1	———	C5792BA	P.C. BOARD
2	98	———	2.16004	TERM. TURRET W/GLDS
1	1	———	2.13700	CONN. 2X24 P.C. EDGE

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MATERIAL	~
FINISH	~

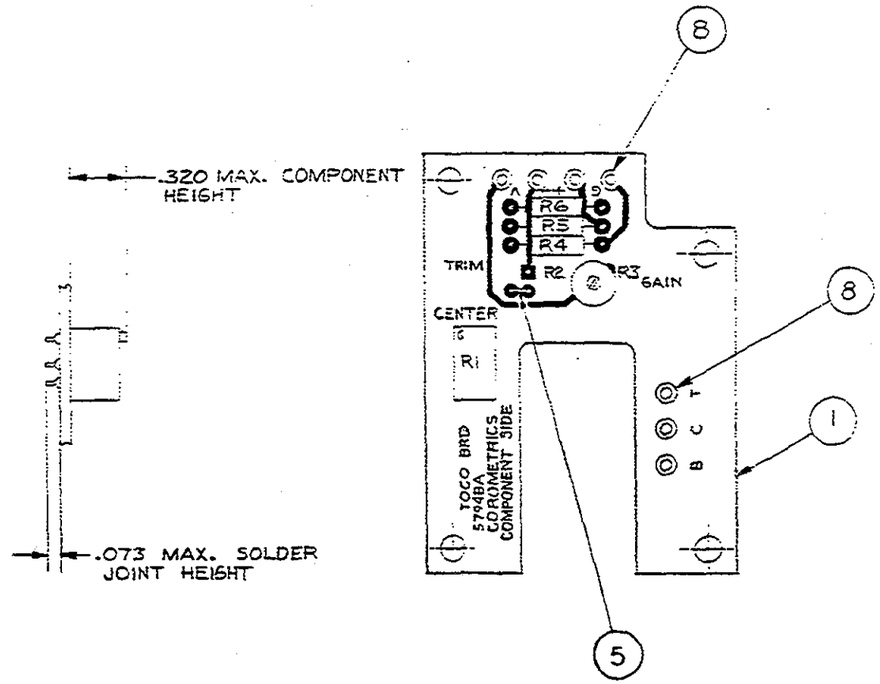
LDR 7/19/83

TITLE: ASSEMBLY EXTENDER CARD FOR 115

SIZE D | 5792B | 00

SCALE 2/1 | SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
00	NEW ECN IIE-31 D.B.W.	5/23/83	
01	ECN 115-160 dwl	9-7-85	
02	ECN 4047 R.A.R.	12-27-85	
03	ECN 491 J.A.	11-14-88	



NOTES:
1. OBSERVE POLARITY AND ORIENTATION MARKINGS ON ALL COMPONENTS.
2. FOR SCHEMATIC SEE B5794BC.
3. INSERT COMPONENTS FULLY INTO BOARD.

ITEM	QTY.	REF. DESIG.	PART Nº	DESCRIPTION
8	7	SEE TITLES	216028	TURRET TERM SM
7	1	R1	475063	POT 2K 12 TURN
6	1	R3	475034	POT 5K 1 TURN
5	1/2		606407	#24 GA. BUSWIRE
4	1	R5	472017	RES 9.09K 1/8W 1%
3	1	R6	472016	RES 8.25K 1/8W 1%
2	1	R4	472010	RES 2.21K 1/8W 1%
1	1	———	C5794BA	P.C. BOARD.

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D5884A	115
NEXT ASSY	USED ON
APPLICATION	

MATERIAL

FINISH

DRAWN D.B.W. DATE 5/23/83
CHECKED DATE 5/23/83
ENGINEER DATE 5/23/83
APPROVED D.R. DATE 5/23/83

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

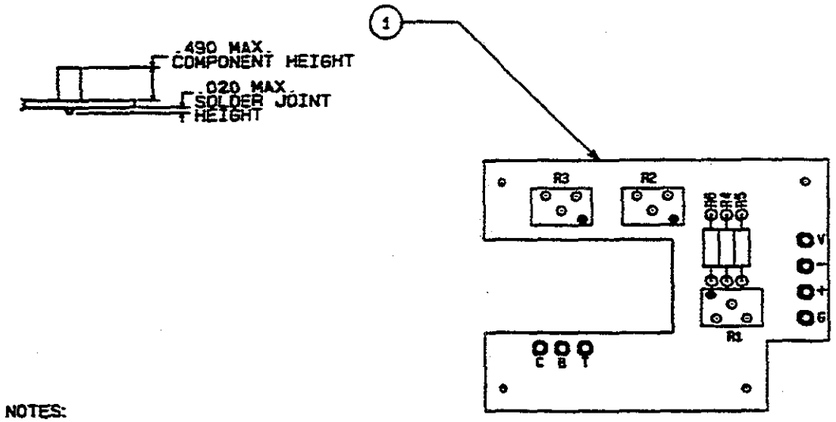
COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK WALLINGFORD, CONNECTICUT

TITLE TOCO BOARD ASSEMBLY

SIZE	DRAWING NUMBER	REV.
C	5794B	03

SCALE 2:1 SHEET 1 OF 1

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
00	5945	SEE ECN	JC	11/87	BS	
01	6223	REV. CHG. TO AGREE W/SCHEM.	J.A.	6/4/88	BS	DF



NOTES:

1-OBSERVE POLARITY AND ORIENTATION MARKINGS OF ALL COMPONENTS.
2-INSERT COMPONENTS FULLY INTO BOARD.
3-FOR SCHEMATIC DRAWING SEE 5794CC
4-STORE IN ANTISTATIC BAG P/N 410080 - NOT SHOWN.
5-FOR PARTS LIST SEE P/L 5794C

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DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± 1/64
2 PLACE DECIMALS ± .01
3 PLACE DECIMALS ± .005
ANGLES ± 1°

D7456F	115
D7456E	115
D7456D	115
D7456C	115
NEXT ASSY	USED ON
APPLICATION	

DRAWN JOHN CUSANO DATE 11-11-87
CHECKED DATE 11/12/87
ENGINEER DATE 11/24/87
APPROVED DATE 11/24/87

MATERIAL ~
FINISH ~

COROMETRICS® MEDICAL SYSTEMS, INC.
BRAMFORD, CONNECTICUT

TITLE
TOCO BOARD ASSEMBLY

SIZE	DRAWING NUMBER	REV.
C	5794C	01

SCALE 1.5 SHEET 1 OF 2

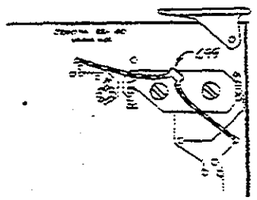
COROMETRICS MEDICAL SYSTEMS INC.	TITLE TOCO BOARD ASSEMBLY	P.L 5794C	REV. 01

ITEM	DWG SIZE	PART NUMBER	REF DESIGNATION	DESCRIPTION	QTY
1	C	5794DA	---------	PC BOARD	1
2		472155	R4	RES.,866 OHM	1
3		472077	R6	RES.,8.06K	1
4		472017	R5	RES.,9.09K,1/8W,1%	1
5		475065	R2	POT,50 OHM,12 TURN	1
6		475072	R3	POT,5K,12 TURN	1
7		475063	R1	POT,2K,12 TURN	1
8		216028	SEE TITLES	TURRET TERM SM	7

REVISION		
00	ECN 5945 11/12/87 JC	
01	ECN 6223 6/4/88 J.A	

DRAWN	CHECKED	APPROVED	NEXT ASSY	MODEL	
A. CELLA	B.S. 11-24-87	D.L.B	D7456TAB	115	PG 2 OF 2

REWORK PER ECN 5625
1/29/87 ADD C99 AS SHOWN
ADD ITEM 140, 141 TO EITHER
SIDE OF CAP. SLEEVE BOTH
LEADS OF C99 W/ITEM 142



REWORK PER ECN 5625
1/29/87 ADD C99, L2 & L3 VALUES
ADD CAPS C97 & C98

REWORK PER ECN 5625
1/29/87 REMOVE C100
ACROSS A1 PINS 2 & 3

REWORK PER ECN 5625
1/29/87 ADD C100 ACROSS
A1-2 & A1-3

REVISIONS				
ISSUE	DESCRIPTION		DATE	
00	NEW ECN 4218		10/15/86	
01	ECN 4446		11/14/86	
02	ECN 4535		12/1/86	
03	ECN 4525		12/1/86	
04	ECN 4554		12/15/86	
05	ECN 4725		1/6/87	
06	REL ECN 5025		1/16/87	
07	REL ECN 5051		1/20/87	
08	REL ECN 5111		1/23/87	
09	PER ECN 5625	AA	1/29/87	SC
10	PER ECN 5755	AA	3/4/87	SC
11	PER ECN 6021	AS	4/27	

NOTES:
1. OBSERVE POLARITY & ORIENTATION OF MARKING ON ALL COMPONENTS.
2. FOR SCHEMATIC SEE DRAWING
3. INSERT ALL COMPONENTS FLUSH TO BOARD UNLESS OTHERWISE NOTED.
4. ASSEMBLY TO BE STORED IN ANTISTATIC BAG WHEN NOT IN USE.

DETAIL A
TYPICAL FOR C1 & C2

DETAIL B
SHIELD & COVER ASSY.

REWORK DWG

PROPRIETARY & CONFIDENTIAL

REWORK PER ECN 6021 11/30/87 VS

REWORK PER ECN 5625 1/28/87 ADD CAP

REWORK PER ECN 5755 3/25/87 ITEM 139 C100

		QTY	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
		~~250 FT~~	142	———	608050	TEFLON TUBING #22 GA
		0	141	———	160042	ACCELERATOR TAK-PAK
		0	140	———	160041	LOCTITE, #416
		~~X~~	139	~~C180~~	~~150035~~	~~CAP 270 pF 500V 5% MICA~~
		1	138	R79	471151	RES. 5.6K 1/4W 5%
		1	137	C93	150028	CAP 150pF 500V 5% MICA
		1	136	C96	150068	CAP 220pF 50V MICA
		1	135	C78	151068	CAP .047 uF 100V 10% MYL.
		1	134	C92	154010	CAP .1uF 50V 1% MYL.
		1	133	R15	471146	RES. 33K 1/4 W 5%
		2	132	———	285007	L'WASHER, INT #4
		2	131	———	281501	NUT, HEX #4-40
		2	130	———	284203	SCR, #4-40 X 5/16L BH
		1	129	———	A23724	SHIELD ASSY
		2	128	R101, 102	472165	RES. 37.4K 1/8W 1%
		1	127	R78	471102	RES. 1M 1/4W 5%
		1	126	L8	180009	INDUCTOR 1MH
		1	125	———	B58204A	SHIELD COVER
		1	124	C72	151005	CAP .0047 200V 20% MYL.
		~~167 FT~~	123	———	606403	BUS WIRE #22 GAGE
		0	122	———	160021	HEATSINK COMPOUND
			121			
		1	120	A6	487072	IC AD537JH
		2	119	———	281512	NUT, HEX #4-40 NYL.
		3	118	C66,89,90	153000	CAP .01uF 50V 20% CD
		1	117	D7	481001	DIODE 1N758A
		1	116	———	D5800HA	P.C. BOARD
		1	115	F1	515032	FUSE 1.5 AMP
		2	114	L7,10	A14957AA	CHOKE, MODIF 9-14 uH
		1	113	A7	487127	IC OP227
		1	112	A2	487113	" TL072
		1	111	A8	487112	" CA3146E
		1	110	A10	487105	" VOLT REG 12V 78L12
		3	109	A4,9,11	487070	" TL074CN
		1	108	A5	487068	" OP07-CP
		1	107	A12	487030	" 1596
		1	106	A3	487062	" 3837
		1	105	A1	487005	" UA741CL
		1	104	U1	486660	" DG212
		1	103	U2	486464	IC 74393N
		2	102	Q3,4	485504	XSTR FET 2N5460
		1	101	Q5	485531	XSTR FET 2N4222
		1	100	Q2	484014	XSTR MJE800
		1	99	Q7	484005	XSTR 2N3643
		C				

		QTY	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
		3	98	Q6,8,10	484000	XSTR 2N3903
		1	97	Q1	483009	XSTR MJE700
		1	96	Q9	483005	XSTR 2N3906
		1	95	D2	481000	DIODE IN751A
		9	94	D1,3,6,8,9-11	480003	DIODE IN4009
		1	93	R57	475035	POT 100Ω 25T
		1	92	R34	475018	POT 5K 25T
		2	91	R33,58	475017	POT 10K 25T
		4	90	R39,42,45,46	473919	RES 10K 1/8W .1%
		1	89	R35	472901	" 3.01K " 1%
		1	88	R68	472236	" 732Ω " "
		1	87	R43	472210	" 100Ω
		1	86	R85	472131	" 357K
		1	85	R87	472127	" 475Ω
		2	84	R37,38	472113	" 523K
		1	83	R50	472111	" 130K
		1	82	R54	472110	" 162K
		2	81	R28,31	472103	" 124K
		3	80	R6,30,66	472102	" 619K
		2	79	R7,29	472101	" 154K
		2	78	R77,86	472080	" 5.49K
		1	77	R92	472072	" 200Ω
		3	76	R97,99,106	472068	" 422K
		1	75	R22	472050	" 107K
		1	74	R83	472043	" 22.1K
		4	73	R36,63,70,71	472041	" 1M
		1	72	R100	472037	" 200K
		1	71	R82	472036	" 182K
		1	70	R10	472030	" 49.9K
		1	69	R59	472027	" 24.9K
		1	68	R95	472055	" 825Ω
		4	67	R21,26,16,17	472021	" 15K
		1	66	R96	472020	" 12.1K
		10	65	R1,24,25,41, R44,51,55, R56,75,84	472018	" 10K
		1	64	R81	472263	" 4.37K
		1	63	R23	472013	" 4.99K
		3	62	R90,111,112	472009	" 2K
		1	61	R88	472004	" 715Ω
		5	60	R73,74,91, R93,94	472006	" 1K
		1	59	R110	472002	" 374Ω
		1	58	R105	472000	" 49.9KΩ 1/8W 1%
		2	57	R1,8	471600	" 10Ω 3W 5%
			56			
		1	55	R113	471166	" 6.8K 1/4 W 5%
		1	54	R103	471165	" 820Ω
		1	53	R80	471127	" 47Ω
		2	52	R67,104	471149	" 470Ω
		1	51	R3	471142	" 12K
		2	50	R18,108	471138	" 22K
		1	49	R72	471134	" 10M
		2	48	R114,115	471126	" 4.7K
		2	47	R49,62	471121	" 20K
		3	46	R89,98,118	471120	RES. 100Ω 1/4W 5%
		C				

REWORK PER ECN 5625 1/28/87 ORG CAPACITORS ADD 3 CAPS

		QTY	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
		3	45	R14,47,64	471118	RES. 47K 1/4 W 5%
		8	44	R9,19,20,40, R48,53,76,109	471113	" 1K
		4	43	R2,32,69,107	471110	" 10Ω
		5	42	R4,13,16, R120,121	471109	" 10K
		5	41	R5,12,17, R52,60	471108	" 100K
		3	40	R6,65,122	471107	" 1.5K
		1	39	R2	471105	RES. 2.2K 1/4W 5%
		2	38	———	284028	SCR#4-40 X 3/8 LG. BH NYL
		2	37	———	280177	EJECTOR, CARD RED
		1	36	HS1	260002	HEAT DISSIPATOR
		1	35	Y1	230002	CRYSTAL 2.3 MHz
		12	34	TP1-TP12	216004	TURRET TERM LGE 1/16 P.C.
		5	33	A1,6,12	215046	PAD, MTG 10-LEAD CAN
		1	32	A3	215045	PAD, MTG, 8-LEAD CAN
		2	31	———	215015	INSULATOR, MICA
		2	30	———	215014	WASHER, CMPRS, #4
		2	29	P15,16	211112	CONN, RT. ANGLE, MALE
		1	28	L1	180013	INDUCTOR 10 MH
		1	27	L6	180010	INDUCTOR 100 MH
		5	26	L4,5,9,2,3	180004	INDUCTOR 15 MH 2.5 MHz
		34 37	25	C1,3,9,10,13 C19-21,24, C29-31,35-40 C42,44,45, C47,50,51, C60,61,67,68, C74,82,85, C97-99	154034	CAP .1uF 50V 10% CER
		8	24	C6,11,14-16, 71,76,95	154023	" .01uF 50V 10% CER
		1	23	C91	154002	ADJ 15-60 pF
		4	22	C7,8,33,34	154001	" .16uF 100V 1% MYL
		1	21	C12	153005	" .022uF 25V 20% CER
		3	20	C63,83,87	153002	" .001uF 1KV 20% CER
		1	19	C4	152114	" 1000uF 50V -10% +50% ALUM
		2	18	C22,94	152102	" 1.0uF 15V 10% TANT
		1	17	C49	152051	" 22uF 15V 10% TANT
		3	16	C62,70,88	152048	" 68uF 15V 10% TANT
		11	15	C2,5,23,25, 46,48,58,65, 81,84,86	152015	" 6.8 uF 20V 10% TANT
		1	14	C41	151080	" .0047uF 33V 2.5% POL
		1	13	C27	151073	" .47uF 100V 10% MYL
		1	12	C55	151054	" .0056uF 100V 2% MYL
		5	11	C28,32,53, 54,69	151047	" .1uF 100V 2% MYL
		1	10	C26	151030	" .68 uF 200V 20% MYL
		1	9	C56	151026	" .33uF 200V 20% MYL
		1	8	C18	151022	" .15 uF 200V 20% MYL
		2	7	C43,73	151008	" .01 uF 200V 20% MYL
		1	6	C17	151002	" .0022 uF 200V 20% MYL
		3	5	C64,75,79	150046	" 680 pF 300V 5% MICA
		2	4	C59,80	150041	" 470 pF 500V 5% MICA
		1	3	C52	154009	" .33uF 50V 10% CER
		1	2	C57	150015	" 47 pF 500V 5% MICA
		1	1	C77	150011	" CAP. 33 pF 500V 5% MICA
		C				

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DO NOT SCALE - WORK TO DIMENSIONS GIVEN

DRAWN	JOHN CUSANO	DATE 9/17/87
CHECKED	E. SHOTWELL	DATE 9-21-87
ENGINEER	SC	DATE 9-24-87
APPROVED	Dick	DATE 9-24-87

COROMETRICS® MEDICAL SYSTEMS, INC.
WALLINGFORD, CONNECTICUT

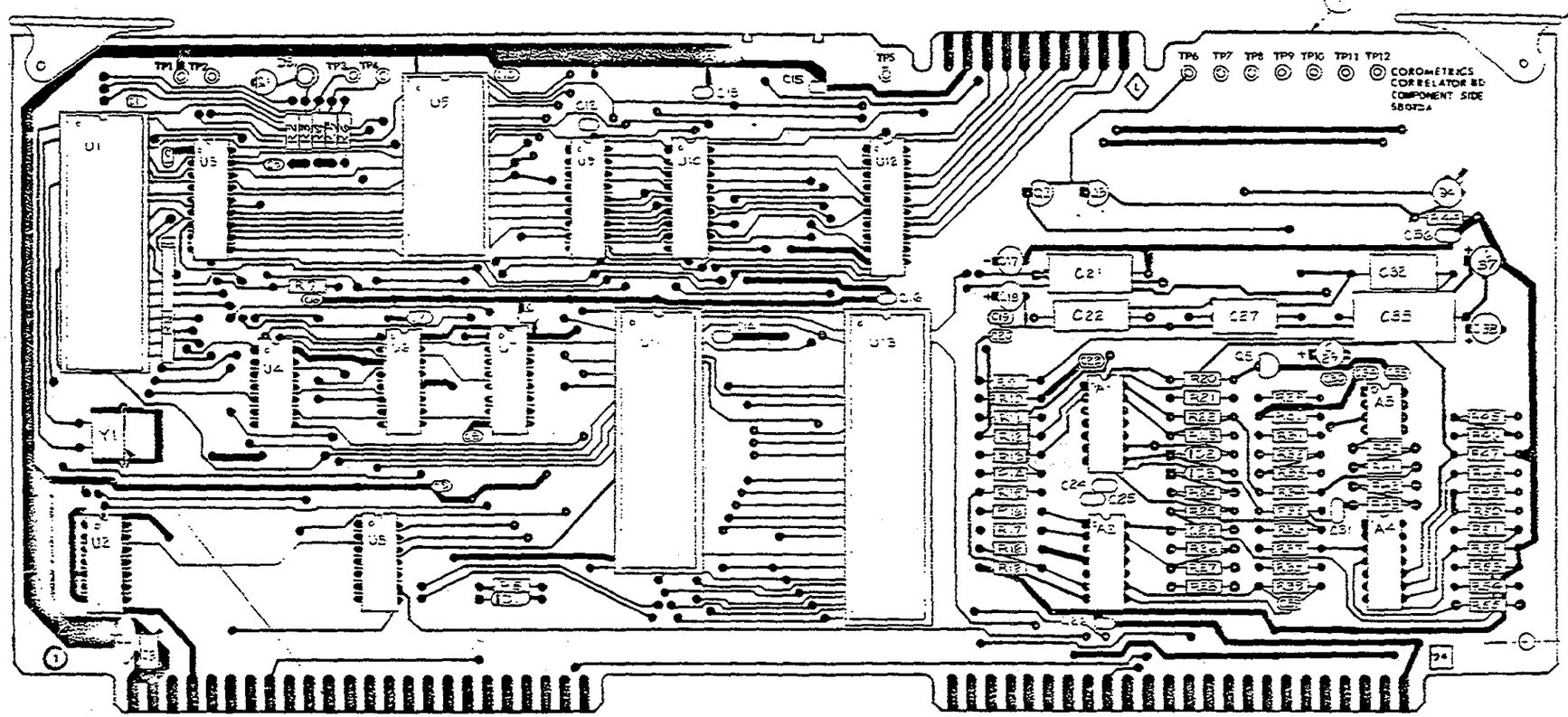
TITLE: MULTIFUNCTION BOARD ASS'Y

MATERIAL	FINISH
~	~

SIZE	DRAWING NUMBER	REV
D	5800C	08

SCALE ~ SHEET 2 OF 3

5472TAB	1:5	
NEXT ASSY	USED ON	
APPLICATION		


TP1 TP2 TP3 TP4 TP5 TP6 TP7 TP8 TP9 TP10 TP11 TP12
COROMETRICS
CORRELATOR BD
COMPONENT SIDE
5801DA
U1 U2 U3 U4 U5 U6 U7 U8 U9 U10 U11 U12 U13
C21 C22 C27 C32 C35 C56
A1 A2 A3 A4 A5
Y1

ZONE	DESCRIPTION	DATE	APPROVED
00	NEW D ECN 4051	DMD	
01	ECN 4380	R.T.	10/18/84
02	PER ECN 4580		
03	ECN 4995	J.A.	

67

.350 MAX COMPONENT HEIGHT

.073 MAX. SOLDER JOINT HEIGHT

NOTES:

1. OBSERVE POLARITY & ORIENTATION MARKINGS ON ALL COMPONENTS.
2. FOR SCHEMATIC SEE D5801DC.
3. INSERT ALL COMPONENTS FULLY INTO BOARD.
4. BOARD MUST BE STORED IN AN ANTI-STATIC BAG P/N 41005: (NOT SHOWN).
5. R1 NOT USED

FOR SERVICE ONLY PER ECN 5637

PROPRIETARY & CONFIDENTIAL

COROMETRICS MEDICAL SYSTEMS, INC.

CORRELATOR, BRD. ASSEMBLY

D1580ID 03

QTY	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
	54	DS1	350040	LED, RED
1	53	U13	487720	I.C. TDC 1008J
1	52	U5	C6035D	PRE PRGM I.C.
1	51	U3	487534	AD7574 CMOS 8BIT
2	50	U9, 10	387543	CMOS 9114
	49			
1	48	U1	487529	2156-2
1	47	U1	487524	8085A-2
1	46	A4	487112	CA3146E
	45	A3	487113	TL072
2	44	A1, 2	487070	TL074
1	43	U12	486599	74LS374
1	42	U2	486530	74LS32
1	41	U6	486480	74LS112
2	40	U4, 8	486467	74LS00
1	39	U7	486466	I.C. 74LS139
2	38	Q2, 3	485505	XSTR FET 2N5457
1	37	Q4	485526	XSTR MOS FET BR211
2	36	Q1, 5	484000	XSTR 2N5903
3	35	D1-3	480009	DIODE 1N4009
1	34	RA1	471146	RES 33K 1/4W 5%
	33			
1	32	R54	472122	RES 2.1M 1/8W 1%
1	31	R27	471151	RES 8.2K 1/4W 5%
1	30	RN1	474009	RES NETWORK 4.7K X 9
1	29	R15	471181	RES 120K 1/4W 5%
2	28	R28, R29	471165	820Ω
2	27	R37, R47	471164	82K
2	26	R51, R55	471173	3.3K
2	25	R44, R54	471142	12K
1	24	R8	471119	5320Ω
1	23	R53	471132	22K
2	22	R20, R48	471144	56K
2	21	R33	471141	4.7M
1	20	R7	471155	250K
3	19	R2, 4, 5, 6, 17	471126	4.3K
1	18	R45	471124	2K
1	17	R24	471121	20K
2	16	R10, R46	471110	10Ω
2	15	R43, R43	471119	1K
6	14	R11, R19, R25, R36, R40, R42	471103	10K
2	13	R15, R16	471102	RES 1M 1/4W 5%
2	12		280177	EJECTOR, CARD (RED)
1	11	Y1	230004	CRYSTAL 10 MHz
2	10	TP1 - TP12	216004	TERM, TURRET VIA HARSE
25	9	C1, 4, 6-16, 19, 20, C25-26, 33, 34, 35	154023	CAP .01μF 50V 10% CER
2	8	C5, C36	154021	100pF 50V 10% CER
1	7	C21	153000	.01μF 50V 20% C.D.
2	6	C28, C37	152102	1μF 35V 20% TANT
1	5	C3	152015	6.8μF 20V 10% TANT
1	4	C27	151053	.068μF 50V 2% POLY
1	3	C22	151032	.01μF 50V 1% POLY
1	2	C21	154000	CAP .33μF 100V ± 5% MYL
1	1		D5801DA	P.C. BRD.

QTY	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
1	79	C39	154045	CAP .015μF 50V 10% CER
1	74	R38	472194	RES 26.1K 1/8W 1%
	73	D18	215050	SOCKET, 48 PIN D.I.P.
2	72	U1, U11	215008	SOCKET, 40 PIN D.I.P.
1	71	U5	215004	SOCKET, 28 PIN D.I.P.
1	70	R30	472056	RES 64.9K 1/8W 1%
1	69	R31	472054	RES 30.1K 1/8W 1%
2	68	R12, R14	472230	RES 909K 1/8W 1%
	67		606402	BUS WIRE, 22 GAGE
1	66	R50	472085	RES 2.32M 1/8W 1%
1	65	R49	471122	RES 220K 1/4W 5%
1	64	R23	472016	RES 10K 1/8W 1%
1	63	R35	471151	RES 5.6K 1/4W 5%
1	62	R22	472080	RES 45.9K 1/8W 1%
1	61	R13	472117	RES 453K 1/8W 1%
1	60	C38	152013	CAP 2.2μF 20V 10% TANT
2	59	C17, 18	152078	CAP 10μF 25V 10% TANT
1	58	C23	151055	CAP .1μF 50V 20% POLY
1	57	C32	151020	CAP .1μF 200V 20% MYL
1	56	C26	154015	CAP 3300pF 50V 5% CER
6	55	R21, R26, R28, R52, R39, R52	471108	RES 100K 1/4W 5%

FOR SERVICE ONLY PER ECN 5637

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CORRELATOR BRD. ASSEMBLY

D 5801D 103

REVISIONS					
REV	ECN	DESCRIPTION		DATE	APPROV.
07	5825	SEE ECN		7/87	[illegible]
08	5939	SEE ECN	JC	9/87	[illegible]
09	5965	SEE ECN	JC	9/87	[illegible]
L-001	5969	SEE ECN	AR	10-13-87	[illegible]
01	6047	ITEM 66 WAS 60316-5	AR	11/27	[illegible]

REWORK PER ECN 4704 4/18/85 CUT TRACES AS SHOWN

R102

R103

REWORK PER ECN 5825 6/18/87 CUT TRACES & ADD R102 AND R103 AS SHOWN

(14) 3 EACH

(87)

REWORK PER ECN 5825 6/18/87 CUT TRACES & ADD R104 AS SHOWN

CUT TRACE AT 'x' MARK

REWORK PER ECN 4704 4/18/85 ADD JUMPERS WIRING AND CUT TRACE AS SHOWN

REWORK PER ECN 5969 CUT TRACE AND ADD JUMPERS AS SHOWN

R101 USE ITEM 93 FOR BOTH LEADS

RN4 - CUT PIN 2 OF RN4 SO AS NOT TO CONNECT TO 3RD AND APPLY TEFLON TAPE UNDERNEATH SO AS NOT TO SHORT LEADS.

CUT TRACE AT 'x' MARK

REWORK PER ECN 5969 10/19/87 CUT TRACE AS SHOWN

REWORK PER ECN 4784 8/9/85 CHG TO AGREE W/SCHM

REWORK PER ECN 5764 11/27/87 ADD R101 RN4

(71)

(1)

(99) (100)

REWORK PER ECN 5825 6/25/87 ADD JUMPER AS SHOWN

PROPRIETARY & CONFIDENTIAL

REWORK PER ECN 5764 11/27/87 ADD C60

NOTES:
1. OBSERVE POLARITY & ORIENTATION MARKINGS ON ALL COMPONENTS
2. FOR SCHEMATIC SEE D5802 KC
3. INSERT ALL COMPONENTS FULLY INTO BOARD
4. BOARD MUST BE STORED IN AN ANTI STATIC BAG P/N 910081 (NOT SHOWN)

REWORK PER ECN 5969: RN4, Q2, Q7, D1, D2, D3, Y2, U26, TP6, TP7, R39, R44-48, R62, R63, C36, C40, C41, C47, C48, CHG U27 TO U12

.490 MAX. COMPONENT HEIGHT

.075 MAX SOLDER JOINT HEIGHT

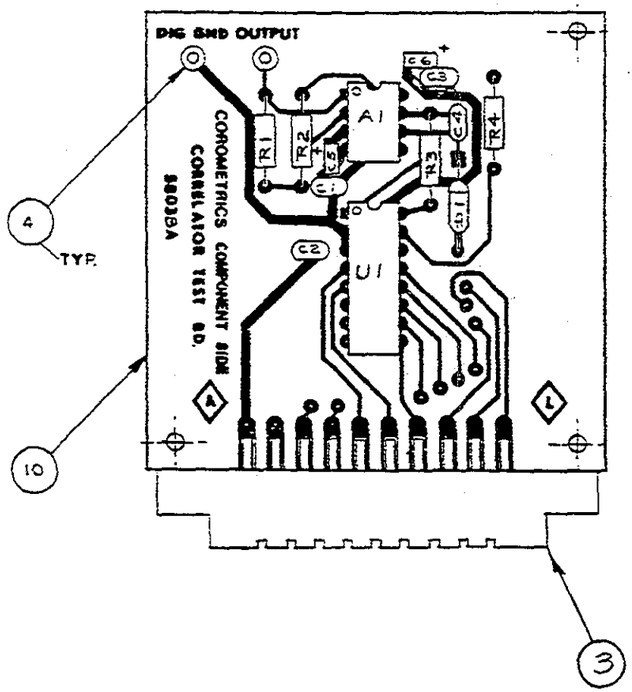
REWORK

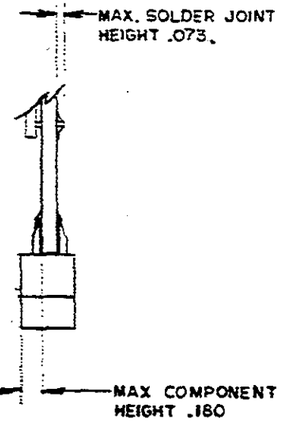
COROMETRICS MEDICAL SYSTEMS

115 CPU BOARD ASSEMBLY

D 5802L 10

REVISIONS				
ISSUE	DESCRIPTION		DATE	APPROVAL
00	NEW ECN 115-710	DMD	5/5/83	
01	ECN 115-109	DMD	9/21/83	





NOTES:

1. OBSERVE POLARITY AND ORIENTATION MARKINGS ON ALL COMPONENTS.
2. FOR SCHEMATIC SEE B-5803AC.

QTY.	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
2	11	C5, C6	152016	CAP. 8.2uf 15V 10% TANT.
1	10	——	C5803BA1	P.C. BOARD
1	9	U1	487539	I.C. AD7524
1	8	A1	487069	I.C. TL082
1	7	D1	480029	DIODE 5082-2835
1	6	R3	471113	RESISTOR 1K 1/4W 5%
3	5	R1, R2, R4	471109	RESISTOR 10K 1/4W 5%
2	4	TP1. TP2	216004	TERMINAL TURRET 1/16 LARGE
1	3	——	212500	CONN. 20 CKT. P.C. EDGE
3	2	C1, C2, C3	154023	CAP .01 UF 50V 10% CER.
1	1	C4	154021	CAP 100 PF 50V 10% CER.
A				

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MATERIAL

FINISH

DMD 6/7/83
6/9/83
6/10/83
6/10/83

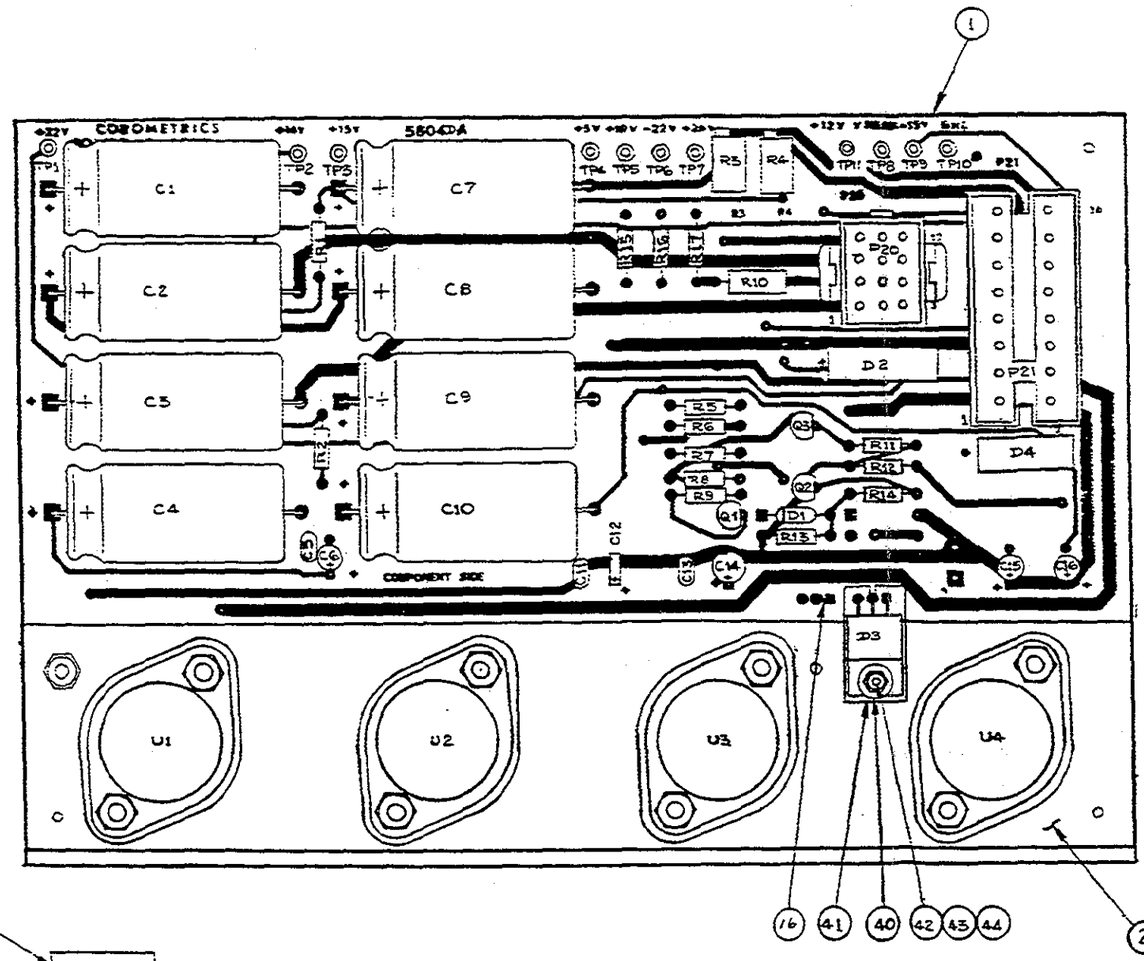
CORMETRICS® MEDICAL SYSTEMS, INC
BRANFORD INDUSTRIAL PARK
WILLIMANTIC CONNECTICUT

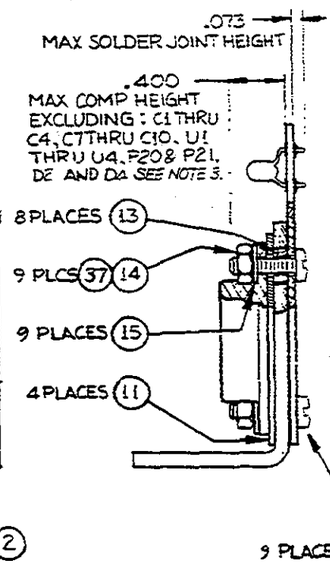
TITLE
CORRELATOR TEST BOARD ASSEMBLY

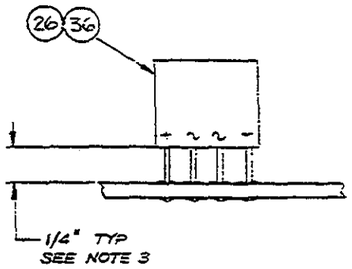
SIZE C | DRAWING NUMBER 5803A | REV. 01
SCALE 2X | SHEET 1 OF 1

HORSOA SERVICE KIT	115
NEXT ASSY	USED ON
APPLICATION	

REVISIONS				
SYM	DESCRIPTION		DATE	APPROVED
D0	NEW "E" ECN 4621	DHS	7/24/84	
D1	ECN 4631	DHS	9/10/84	
D2	ECN 4688	JA	11/30/84	
D3	PER ECN 4722	MM	1/14/85	
D4	PER ECN 4760	MM	2/18/85	




.073
MAX SOLDER JOINT HEIGHT
.400
MAX COMP HEIGHT EXCLUDING: C1 THRU C4, C7 THRU C10, U1 THRU U4, P20 & P21, D2 AND D4 SEE NOTE 3.
8 PLACES
9 PLCS
9 PLACES
4 PLACES
9 PLACES



NOTES:

1. OBSERVE POLARITY AND ORIENTATION MARKINGS ON ALL COMPONENTS.
2. FOR SCHEMATIC SEE C5804CC.
3. INSERT ALL COMPONENTS FULLY INTO BOARD, EXCEPT D2 AND D4 SPACE 1/4" OFF BOARD FOR HEAT DISSIPATION.

QTY.	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
	78	44	—	160022 GLYPTAL, RED ENAM.
	1	43	—	28:512 NUT #4-40 NYLON
	1	42	—	284032 SCREW #4-40X5/16 BH
	1	41	—	215028 INSULATOR
	1	40	—	215014 WASHER, #4 COMPRES
		39		
		38		
	AR	37	—	160019 LOCTITE #2-E
	1	36	D2	482503 DIODE BRIDGE KBL005
	9	35	—	286014 SCREW #6-32 x 1/2 LG BH
	1	34	R10	470146 RESISTOR 6.8K ½W 10%
	1	33	U3	487129 IC LM338K
	1	32	U2	487126 IC LM350K
	1	31	U1	487117 IC MC7815CK
	1	30	U4	487034 IC LM320K-15
	3	29	Q1,Q2,Q3	484000 XSTR 2N3903
	1	28	D3	482510 DIODE DUAL FE16A
	1	27	D1	481003 DIODE ZENER 1N748A
	1	26	D4	482505 DIODE BRIDGE B59340
	1	25	R3	475045 POT 200Ω 25T
	1	24	R4	475019 POT 2K 25T
	1	23	R12	471157 RES 2.7K ¼W 5%
	1	22	R5	471193 RES 270Ω ¼W 5%
	1	21	R7	471196 RES 560Ω ¼W 5%
	2	20	R6,R8	471170 RES 120Ω ¼W 5%
	1	19	R9	471109 RES 10K ¼W 5%
	7	18	R1,R2,R13-R17	471120 RES 100Ω ¼W 5%
	1	17	R11	471113 RES 1K ¼W 5%
.021		16	—	606907 JUMPER, 24 AWG BUS WIRE
	9	15	—	285008 L WASHER, INT TOOTH #6
	9	14	—	281502 NUT, HEX #6-32
	8	13	—	215012 BUSHING, NYLON
	11	12	TP1-TP11	216008 TERMINAL, PC 1/8
	4	11	—	215026 INSULATOR TO-3
	1	10	P20	212129 CONN 3x4 PIN HEADER
	1	9	P21	210021 CONN 2x8 PIN HEADER
	3	8	C5,C11,C13	154005 CAP .1μF 50V 20% CER
	1	7	C14	152111 CAP 3.3μF 50V 10% TANT
	3	6	C6,C15,C16	152102 CAP 10μF 35V 20% TANT
	4	5	C3,C4,C7,C10	152055 CAP 2200μF 40V +75-15% ELCT
	4	4	C1,C2,C8,C9	152054 CAP 4700μF 16V +75-15% ELCT
	1	3	C12	152015 CAP 6.8μF 20V 10% TANT
	1	2	—	857350A HEATSINK
	1	1	—	D5804DA PC BOARD

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DS793A 142
DS726B 115
NEXT ASSY USED ON
APPLICATION

MATERIAL —
FINISH —

COSMOMETRICS MEDICAL SYSTEMS, INC.
SAN LUIS OBISPO, CALIFORNIA

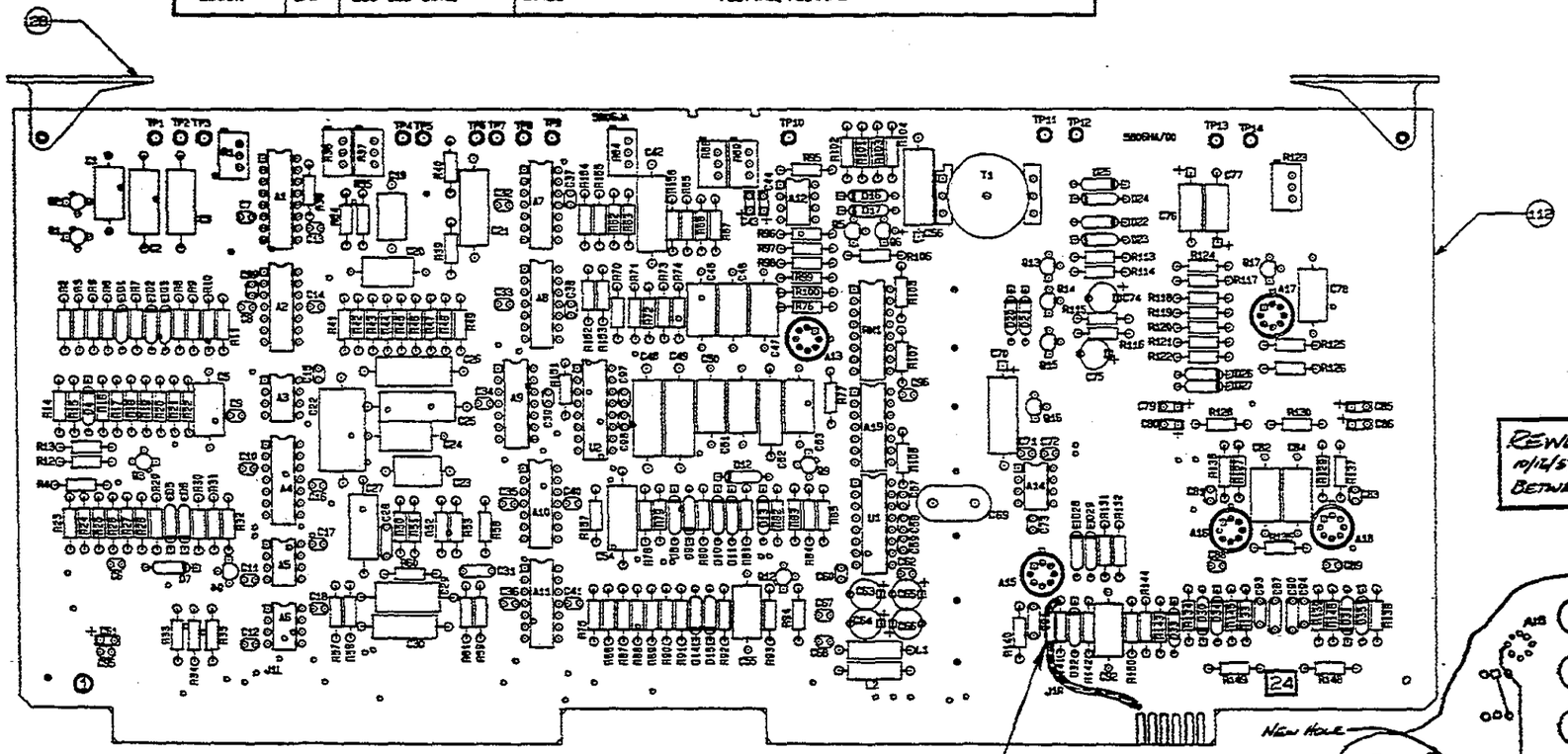
TITLE: POWER SUPPLY BOARD ASSEMBLY

SIZE D | DRAWING NUMBER 5804C | REV 04

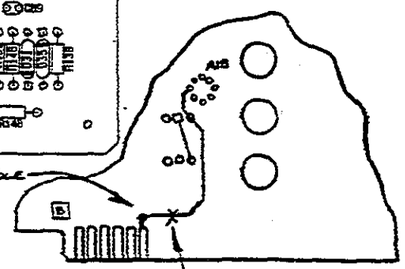
SCALE 2/1 | SHEET 1 OF 1

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
*	4632	NEW	AM	8/24/85		
*	4756	SEE ECN	JA	3/12/86		
*	4890	NEW K&L	MM	4/23/86		
*	5029	SEE ECN	MM	7/15/86		
*	4977	SEE ECN	MM	8/19/86		
*	5376	SEE ECN	MM	8/13/86		
*	5440	SEE ECN	MM	1/13/87	SAS	
*	5708	SEE ECN	RB	7/27/87	ES	
*	5824	C/G Z3 & Z5 POSITIONS	MM	6-2-87	SAS	
*	5925	'L' ONLY-RMV- ITEM 29, 28512, QTY 1; ITEM 30, 284217, QTY 1 & ITEM 14, 28500B, QTY 3.	VS	9/87	BS	
*	5964	ADDED ITEM 1 TO P/L	R B	9/87	ES	
*	5987	ADDED 20K RES (R158) & ITEM 133	AM	10/87	BS	

PART NO.	REV	DESCRIPTION	NEXT ASSY	
5806L	09	ECG 1 BD 50HZ		, 7667TAB, 7691TAB, 7694TAB, 7700TAB
5806K	07	ECG 1BD 60HZ	5972B	7667TAB, 7694TAB



REWORK PER ECN 5987
10/12/87 SPLICE 20K RES
BETWEEN 24 AND A15-6



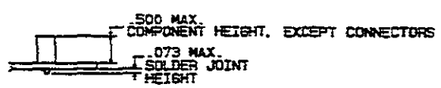
R158
SLEEVE BOTH LEADS OF RESISTOR W/TEFLON TUBING, ITEM #133 DRILL AN 0.02 DIA. HOLE ABOVE FINGER TO CONNECT TO BACK SIDE OF B20 (FISH LEAD THRU HOLE & SOLDER TO FINGER)

CUT TRACE HERE

REWORK DWG.

NOTES:

1- OBSERVE POLARITY AND ORIENTATION MARKINGS OF ALL COMPONENTS.
2- INSERT COMPONENTS FULLY INTO BOARD.
3- FOR SCHEMATIC DRAWING SEE 5806LC, MC
4- STORE IN ANTISTATIC BAG P/N 410080 - NOT SHOWN.
5- FOR PARTS LIST SEE P/L 5806KL



DETAIL B

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DO NOT SCALE - WORK TO DIMENSIONS SHOWN. REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± 1/64
2 PLACE DECIMALS ± .01
3 PLACE DECIMALS ± .005
ANGLES ± 1°

SEE	
TABLE	115
NEXT ASSY	USED ON

APPLICATION

DRAWN	R. LIBBY	DATE 1-9-87
CHECKED		DATE 1-9-87
ENGINEER	S. Cannon	DATE 1-12-87
APPROVED	W. Bowden	DATE 1-12-87

COROMETRICS® MEDICAL SYSTEMS, INC.
WALLINGFORD, CONNECTICUT

TITLE: 115 ECG 1 BRD. ASSEMBLY

MATERIAL: ~

FINISH: ~

SIZE	DRAWING NUMBER	REV.
C	5806 TAB	*

SCALE 1.25/1 | SHEET 1 OF 7

	35	35	25	C6-18,32-41,59, 60,62,67,68,	154034	CAP,.1uf,50V,10Z,CERAMIC
				71-73,95,96,97, 98		
	7	7	24	C57,58,81,83,88 89,99	154023	CAP,.01uf,50V,10Z,CERAMIC
	2	2	23	C30,52	154000	CAP,.051uf,100V,1Z,MYLAR
	1	1	22	C69	153008	CAP,15pF,6KV,20Z,C.D.
	2	2	21	C28,31	153005	CAP,.022uf,25V,20Z,C.D.
	1	1	20	C91	153002	CAP,.001uf,1KV,20Z,C.D.
	4	4	19	C63-66	152076	CAP,15uf,20V,20Z,TANT
	2	2	18	C74,75	152048	CAP,68uf,15V,10Z,TANT
	7	7	17	C43,44,79,80,85, 86,61	152015	CAP,6.8uf,20V,10Z,TANT
	1	1	16	C70	152002	CAP,6.8uf,35V,10Z,TANT
	1	1	15	C56	152001	CAP,4.7uf,35V,10Z,TANT
	2	2	14	C76,77	152000	CAP,1uf,35V,10Z,TANT
	5	5	13	C2,3,27,29,54	151073	CAP,.47uf,100V,10Z,MYLAR
	4	4	12	C45,46,50,51	151060	CAP,.15uf,100V,1Z,POLY
	1	1	11	C22	151055	CAP,3uf,50V,20Z,POLY
	1	1	10	C53	151047	CAP,.1uf,100V,2Z,MYLAR
	2	2	9	C19,23	151046	CAP,.01uf,100V,2Z,MYLAR
	1		8	[illegible]	[illegible]	[illegible]
	2	2	7	C21,42	151024	CAP,.22uf,200V,20Z,MYLAR
	4	4	6	C1,5,47,55	151020	CAP,.1uf,200V,20Z,MYLAR
	4	4	5	C25,26,48,49	151018	CAP,.068uf,200V,20Z,MYLAR
	5	5	4	C20,24,28,82,84	151012	CAP,.022uf,200V,20Z,MYLAR
	1	1	3	C92	151002	CAP,.0022uf,200V,20Z,MYLAR
	2	2	2	C93,94	150051	CAP,150pf,500V,2Z,MICA
	0	0	1		D5806AB	BLOCK DIAGRAM
	L	K	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
QTY						

5806L	09	ECG 1 BRD (50Hz)
5806K	07	ECG 1 BRD (60Hz)
PART NO.	REV.	DESCRIPTION

7667TAB,7691TAB,7694TAB,7700TAB

7667TAB,7694TAB

9972U

NEXT ASSY.

08/08

REWORK DWG

| | | | | | |

REWORK PER ECN 5987 10/16/87 ADD R158 (20K)

	QTY L	QTY K	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
	1	1	51	R11	471612	RES,3.3M,1/4W,5%
	1	1	50	R26	471190	RES,3.9K,1/4W,5%
	2	2	49	R107,108	471138	RES,22K,1/4W,5%
	1	1	48	R13	471165	RES,820 OHMS,1/4W,5%
	1	1	47	R5	471157	RES,2.7K,1/4W,5%
	1	1	46	R93	471149	RES,470 OHMS,1/4W,5%
	4	4	45	R62,63,142,144	471137	RES,1.5M,1/4W,5%
	3	3	44	R15,95,96	471136	RES,470K,1/4W,5%
	1	1	43	R41	471129	RES,510 OHMS,1/4W,5%
	2	2	42	R16,23	471124	RES,2K,1/4W,5%
	3	3	41	R10,R148,R149	471123	RES,22M,1/4W,5%
	2+	2+	40	R12, R158	471121	RES,20K,1/4W,5%
	8	8	39	R100,127,129,136, 137,154,155,156	471120	RES,100 Ohms,1/4W,5%
	1	1	38	R14	471118	RES,47K,1/4W,5%
	1	1	37	R76	471117	RES,39K,1/4W,5%
	1	1	36	R6	471115	RES,330 Ohms,1/4W,5%
	1	1	35	R3	471113	RES,1K,1/4W,5%
	6	6	34	R7,21,25,31,92, 151	471109	RES,10K,1/4W,5%
	8	8	33	R2,4,24,52,53, 85,91,94	471108	RES,100K,1/4W,5%
	1	1	32	R132	471104	RES,330K,1/4W,5%
	5	5	31	R30,131,140,141 143	471102	RES,1M,1/4W,5%
L/07	—	1	30	————	284217	SCR,#4-40 x 3/4 LG., BH, NYLON
	—	1	29	————	281512	NUT,HEX #4-40
	2	2	28	————	280177	EJECTOR,CARD RED
	—	1	27	T1	B1841B	TRANSFORMER,ISOLATION
	2	2	26	L1,2	180007	INDUCTOR,47uH,MLD

REWORK DWG

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CORONETRICS MEDICAL SYSTEMS, INC.

TITLE: 115 ECG 1 BOARD ASSY.

SIZE: B | DRAWING NUMBER: 5806TAB | REV: E

DATE BY | ECN NO | REV

NEXT ASSY | USED ON | APPLICATION

	1	1	77	R98	472063	RES,13.7K,1/8W,1%
	1	1	76	R61	472093	RES,121K,1/8W,1%
	1	1	75	R79	472095	RES,7.15K,1/8W,1%
	1	1	74	R125	472083	RES,475K,1/8W,1%
	2	2	73	R114,116	472079	RES,3.32K,1/8W,1%
	1	1	72	R51	472071	RES,10.2K,1/8W,1%
	4	4	71	R120,121,122,126	472066	RES,499K,1/8W,1%
	1	1	70	R48	472062	RES,13.3K,1/8W,1%
	1	1	69	R19	472056	RES,64.9K,1/8W,1%
	1	1	68	R59	472046	RES,93.1K,1/8W,1%
	6	6	67	R40,43,44,45,74 78	472045	RES,90.9K,1/8W,1%
	2	2	66	R77,101	472043	RES,22.1K,1/8W,1%
	2	2	65	R47,72	472145	RES,432K,1/8W,1%
	4	4	64	R20,83,84,87	472033	RES,100K,1/8W,1%
	1	1	63	R80	472225	RES,16.5K,1/8W,1%
	1	1	62	R33	472030	RES,49.9K,1/8W,1%
	1	1	61	R82	472077	RES,8.06K,1/8W,1%
	1	1	60	R97	472025	RES,21.5K,1/8W,1%
	4	4	59	R88,90,145,146	472024	RES,20K,1/8W,1%
	8	8	58	R39,54,55,57,58, 73,117,118	472018	RES,10K,1/8W,1%
	1	1	57	R86	472017	RES,9.09K,1/8W,1%
	4	4	56	R28,32,119,124	472013	RES,4.99K,1/8W,1%
	1	1	55	R102	472010	RES,2.21K,1/8W,1%
	2	2	54	R133,139	472009	RES,2K,1/8W,1%
	1	1	53	R49	472007	RES,1.21K,1/8W,1%
	5	5	52	R29,70,99,134,138	472006	RES,1K,1/8W,1%
	L	K	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
QTY						

REWORK DWG

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COROMETRICS MEDICAL SYSTEMS, INC.

TITLE: 115 ECG 1 BOARD ASSY.

SIZE B | 5806TAB | REV ±

	2	2	101	Q5,6	483012	XSTR,MPS4355
	3	3	100	Q4,13,14	483005	XSTR,2N3906
	2	2	99	D20,21	481001	DIODE,IN758A
	1	1	98	D14	481000	DIODE,IN751A
	13	13	97	D1-4,15-28-35	480014	DIODE,FD300
	15	15	96	D5-13,D22-27	480003	DIODE,IN4009
	1	1	95	R37	475021	POT,500 OHMS,25T
	3	3	94	R1,36,64	475020	POT,1K,25T
	2	2	93	R68,69	475019	POT,2K,25T
	1	1	92	R123	475016	POT,100K,25T
	2	2	91	R128,130	473904	RES,9.76K,1/8W,1%
	1	—	90	R65	472913	RES,10.2K,1/8W,1%
	—	1	90	R65	472912	RES,8.45K,1/8W,1%
	2	—	89	R66,67	472911	RES,20.5K,1/8W,1%
	—	2	89	R66,67	472910	RES,16.9K,1/8W,1%
	1	1	88	R135	472240	RES,402 OHMS,1/8W,1%
	2	2	87	R22,38	472237	RES,14K,1/8W,1%
	1	1	86	R56	472204	RES,38.3K,1/8W,1%
	1	1	85	R18	472201	RES,75K,1/8W,1%
	1	1	84	R27	472198	RES,249K,1/8W,1%
	2	2	83	R17,42	472165	RES,37.4K,1/8W,1%
	1	1	82	R89	472048	RES,102K,1/8W,1%
	2	2	81	R113,115	472160	RES,97.6 OHMS,1/8W,1%
	1	1	80	R60	472156	RES,60.4K,1/8W,1%
	4	4	79	R103-106	472148	RES,20 OHMS,1/8W,1%
	1	1	78	R81	472233	RES,11.8K,1/8W,1%
QTY	L	K	ITEM	REF. DESIG.	PART NO.	DESCRIPTION

REWORK DWG

DATE BY
ECN NO
REV
NEXT ASSY USED ON
APPLICATION

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COROMETRICS MEDICAL SYSTEMS, INC.

TITLE 115 ECG 1 BOARD ASSY.

SIZE B | DRAWING NUMBER 5806IAB | REV *

SCALE | SHEET 5 of 7

QTY L	QTY K	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
1	1	127	R75	471135	RES,200K,1/4W,5%
		126			
1	1	125	R150	471184	RES,1.2K,1/4W,5%
1	1	124	R50	471194	RES,82 OHMS,1/4W,5%
1	1	123	U1	486572	I.C.,74LS123
1	1	122	A19	486516	I.C.,7406
2	2	121	D16,17	480023	DIODE,1N4148
1	1	120	RN1	474017	NETWORK RES,3.3K,8 RES,16 PINS
2	2	119	C87,90	150061	CAP,1000pf,2%
		118			
1	1	117	R34	472175	RES,61.9K,1/8W,1%
1	1	116	R35	472044	RES,88.7K,1/8W,1%
14	14	115	TP1-14	216004	TURRET TERMINAL LGE. 1/16 P.C.
—	3	114	————	285003	WASHER, #4 NYLON
5	5	113	A13,15,16,17,18	215045	PAD,IC INSULATOR
1	1	112	————	D5806JA	P.C. BOARD
4	4	111	A3,6,12,14	487113	IC,TL072
1	1	110	A5	487099	IC,LM393
1	1	109	A1	487097	IC,LM13600A
6	6	108	A2,7-11	487070	IC,TL074
3	3	107	A16-18	487059	IC,OP-06
1	1	106	A4	487038	IC,LM339
1	1	105	A15	487018	IC,8007C
1	1	104	A13	487005	IC,741C
5	5	103	Q1-3,9,12	485510	XSTR,FET,2N4857
3	3	102	Q15,16,17-	484005	XSTR,2N3643

L/07

REWORK DWG

DATE BY | REV NO | REV

NEXT ASSY | USED ON | APPLICATION

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COROMETRICS MEDICAL SYSTEMS, INC.

TITLE: 115 ECG 1 BOARD ASSY.

SIZE: B | 5806TAB | REV: *

SCALE: 3/4 | SHEET 6 OF 7

REWORK PER ECN 5987 10/16/87 ADD ITEM 133

QTY			ITEM	REF. DESIG.	PART NO.	DESCRIPTION
	L	K				
	1"	1"	133	————	608050	TEFLON TUBING #22 GA
	1	—	27	T1	C1841C	ISOLATION XFMR, I.E.C.
	2	2	132	R8,9	472085	RES,3.32M,1/8W,1%
	2	2	131	R46,71	472114	RES,324K,1/8W,1%
	1	1	130	U2	486660	IC,DG212
	1	1	129	R157	471107	RES,1.5K,1/4W,5%
	2	2	128	R152,153	471126	RES,4.7K,1/4W,5%

REWORK DWG

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CHKD BY — RLC 10/16/87
ECN NO. — 5987
ENGR — SC 2-3-87
PREV. ASSY — USED ON — APPLICATION — MFG — SC 2-3-87

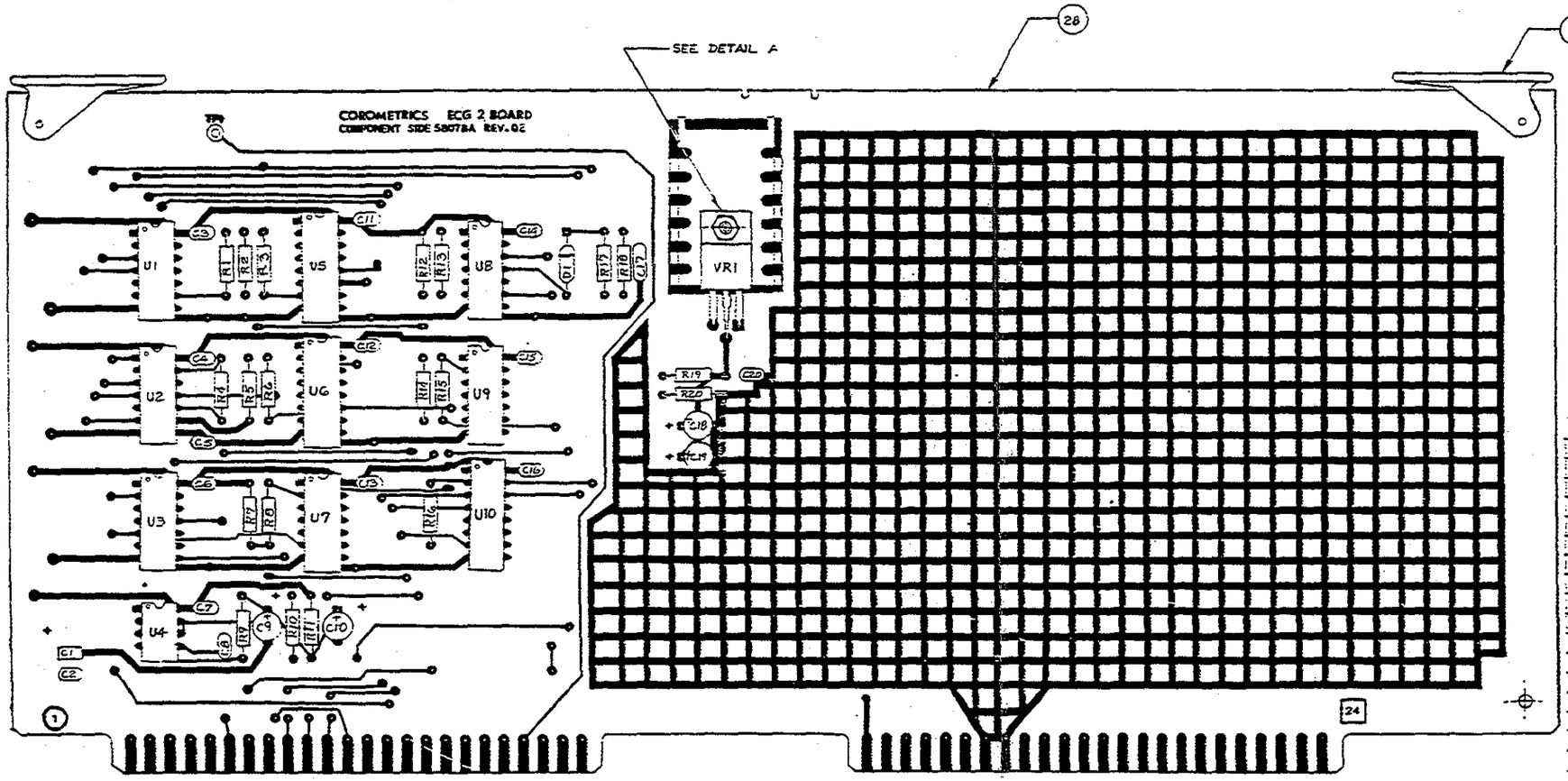
COROMETRICS MEDICAL SYSTEMS, INC.

TITLE: 115 ECG 1 BOARD ASSY.

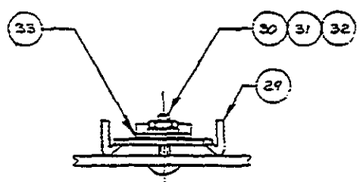
SIZE: B | DRAWING NUMBER: 5806TAB | REV: *

SCALE: 2/1 | SHEET 2 of 2

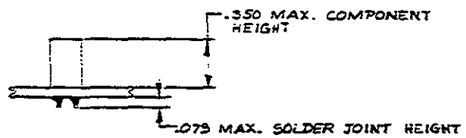
REVISIONS				
STR	DESCRIPTION		DATE	APPROVALS
00	NEW	RG	3/5/83	
X1	ECN 115-3	MM	5/5/83	
01	NEW PCB ECN 115-47	WH	6/23/83	
02	ECN 115-105	VSH	7/85	D—
03	ECN 4245	RG	4/8/84	M S
04	ECN 5264 ADD ITEM 32	RS	9/16/87	SC



NOTES:
1. OBSERVE POLARITY & ORIENTATION MARKINGS ON ALL COMPONENTS.
2. FOR SCHEMATIC SEE D5807BC.
3. INSERT ALL COMPONENTS FULLY INTO BOARD.
4. BOARD MUST BE STORED IN AN ANTISTATIC BAG P/N 410081 (NOT SHOWN).



DETAIL A



ITEM	REF. DESIG.	PART NO.	DESCRIPTION
QTY			
	34	D5806BA	BLOCK DIAGRAM
1	33	2:5037	INSULATOR PAC
1	32	285007	LOCKWASHER #4 INT TOOTH
1	31	281501	NUT, HEX #4-40
1	30	284354	SCREW #4-40 x 3/8 LG. RH
1	29	260013	HEATSINK
1	26	D5807BA	P.C. BOARD
1	27 VR1	487124	VOLT. REG. LM3177
1	26 U4	287016	I.C. 555
1	25 U5	486634	4028
1	24 U9	486631	4071
1	23 U10	486620	4518
1	22 U6	486604	4040
2	21 U7,8	486603	4024
2	20 U2,3	486602	4013
1	19 U1	486601	I.C. 4011
1	18 D1	480003	DIODE IN4009
1	17 R19	472150	RES 243Ω 1/8W 1%
1	16 R20	472075	2.67K 1/8W 1%
1	15 R4	472048	102K 1/8W 1%
1	14 R11	471177	2M 1/4W 5%
1	13 R9	471141	4.7M
1	12 R18	471139	680K
1	11 R14	471112	15K
9	10 R1,3,6,7,10,13, R15,16,17	471109	10K
4	9 R2,5,8,12	471108	RES 100K 1/4W 5%
2	8	280177	EJECTOR CARD RED
1	7 TP1	216004	TURRET TERMINAL LEE 1/16 PC
13	6 C2-7,11-16,20	154034	CAP .1μF 50V 10% CER
1	5 C8	154023	.01μF 50V 10% CER
1	4 C17	154009	.33μF 50V 10% CER
3	3 C9,10,19	152102	1μF 35V 20% TANT
1	2 C18	152075	10μF 25V 10% TANT
1	1 C1	152015	CAP 6.8μF 20V 10% TANT

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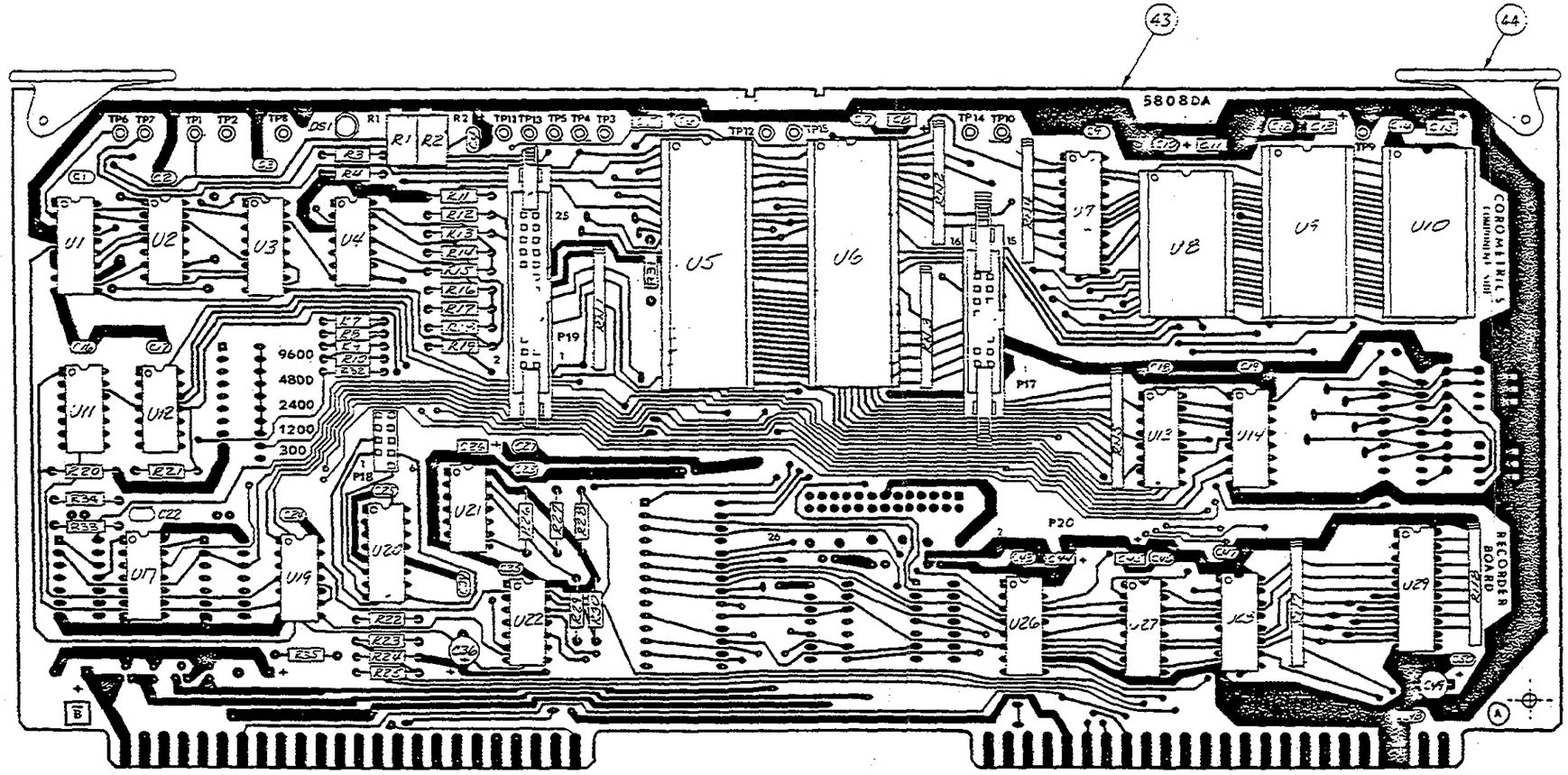
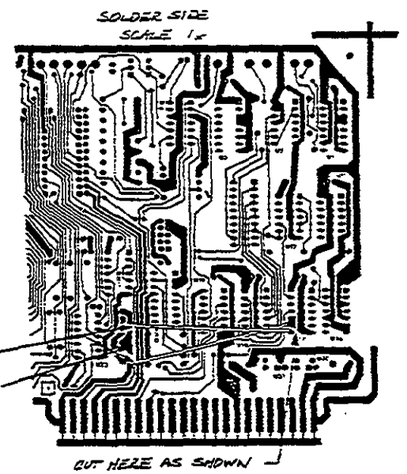
MATERIAL			COROMETRICS MEDICAL SYSTEMS, INC.
FINISH			TITLE ECG 2 BOARD ASSEMBLY
5577AB	115		SIZE D / DRAWING NUMBER 5807B / REV 04
NEXT ASSY	USED ON		SCALE 2 X / SHEET 1 OF 1
APPLICATION			

REVISIONS				
LTR	DESCRIPTION		DATE	APPROVAL
DD	NEW ECN 4515		9-1984	
*	ECN4432 "X" & "Y"	WS	10/20	
*	PEP ECN 4627			

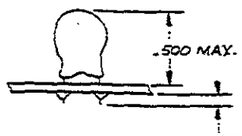




REWORK DWG.

REWORK PER ECN 4627 3/21/85

CUT SIGNAL TRACE AS SHOWN



NOTES:

1. OBSERVE POLARITY & ORIENTATION MARKINGS ON ALL COMPONENTS.
2. FOR SCHEMATIC SEE D5808TAB
3. BOARD MUST BE STORED IN AN ANTI-STATIC BAG, P/N 410020 (NOT SHOWN)
4. INSERT COMPONENTS FULLY INTO BOARD.

REWORK PER ECN 4627 3/21/85

PART Nº	REV	DESCRIPTION	NEXT ASSY
D5808U	01	GERMAN	E6172 TAB. P/L 1230A
D5808T	01	FRENCH	E6172 TAB. P/L 1230A
D5808V	01	JAPANESE	E5972 TAB. P/L 1230A
D5808Y	02	EUROPEAN	E6172 TAB. P/L 1230A
D5808X	02	DOMESTIC	E5972 TAB. P/L 1230A

KEY TABLE	
CONN	POSITION
P17	NONE
P18	PIN 1
P19	NONE

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SEE TABLE	115
NEXT ASSY	USED ON
APPLICATION	

MATERIAL

FINISH

CORODYNAMICS™ MEDICAL SYSTEMS, INC.

TITLE: RECORDER BOARD ASSY W/O RS232

SIZE: D | DRAWING NUMBER: 5808TAB | REV: *

SCALE: 2:1 | SHEET: 1 OF 2

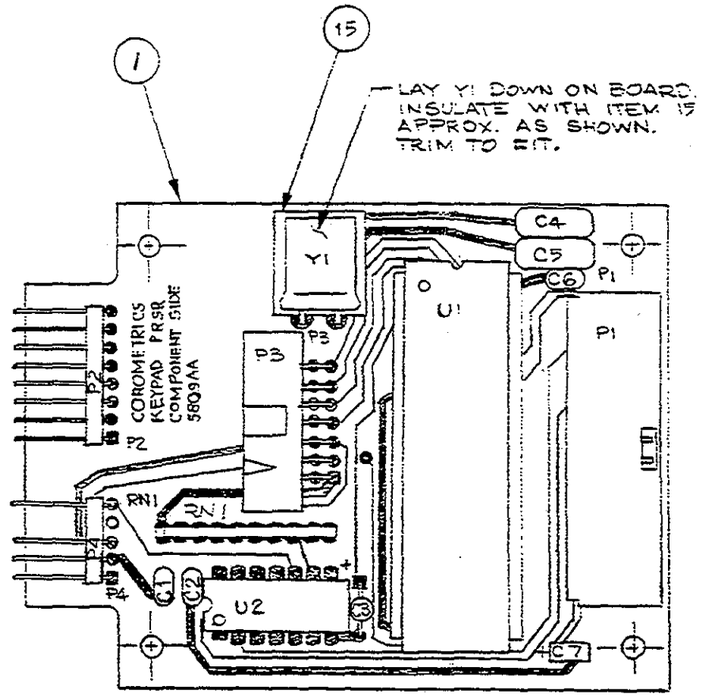
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
*	SEE SHEET 1 FOR REV "A"	7-15-84	

REWORK PER ECN 4627 3/21/85

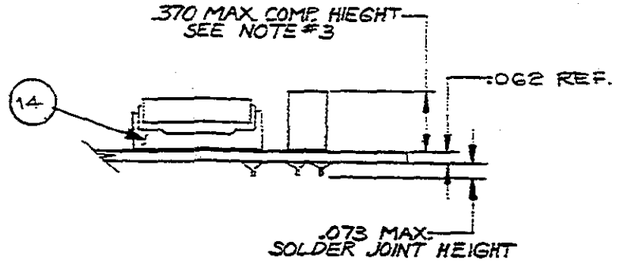
3	3	3	3	3	3	60		608050	TEFLON TUBING 22 GA		
3	3	3	3	3	3	59		606407	BUS WIRE #24 GA		
	1	1	1	1	1	58	U17	450540	IC 74LS30		
						57					
		1				50	U9	C60335	PRE GRIT IC ASSY GER		
			1			50	U9	C60332	PRE SERV IC ASSY - FRI		
		1	1	1	1	1	52	R15	471136	RES 470K 1/4W 5%	
		1	1	1	1	1	51	P13	471182	RES 150.2 1/4W 5%	
				1			56	U10	C60330	PRE PROGRAMMED [illegible]	
				1			55	U9	C60331	PRE PROGRAMMED [illegible]	
	2	2	2	2	2	54	R1 R2		475022	POT 50K	
	2	2	2	2	2	53	R3, R11		471163	RES 200Ω 1/4W 5%	
			23			3	C1-3,6,7,9,10,12 C16-19,22,24,27,34 C35,43,46-48,50		154023	CAP .01uF 50V 10% CER	
	22	22		22	22	3	C1-3,6,7,9,10,12 C16-19,22,24,27,34 C35,43,46-48,50		154023	CAP .01uF 50V 10% CER	
			2	Y	Y	42	U9, U10		215004	SOCKET, IC 28 PIN DIP	
		1	1		1	42	U9		215004	SOCKET, IC 28 PIN DIP	
					1	50	U9		C60338	PREPROGRAMMED PROM	
				1	1	50	U9		C60338	PREPROGRAMMED PROM	
		1	1	1	1	1	49	R12	471115	RES 330Ω 1/4W 5%	
		1	1	1	1	1	47	U8	215006	SOCKET, IC 40 PIN DIP	
		1	1	1	1	1	46	U8	467555	IC 6116LP-4 RAM	
		1	1	1	1	1	45	DS1	390040	LED: RED	
	2	2	2	2	2	44			260177	EJECTOR, CART. REC	
		1	1	1	1	1	43		C5306DR	P.C. BOARD	
		2	2	2	2	2	41	U5,6		215006	SOCKET, IC 40 PIN DIP
		1	1	1	1	1	40	RN1		474012	RES NTWK 1.6K 9 RES

PART NO.	REV	NEXT ASSY	DESCRIPTION
C5809A	03	D5955A	DOMESTIC
C5809B	01	D5955B	JAPANESE
C5809C	01	D5955C	FRENCH
C5809D	00	D5955D	GERMAN
C5809E	00	D5955E	SPANISH

REVISIONS				
SYM	DESCRIPTION		DATE	APPROVAL
00	NEW		3-14-83	
01	ECN 115-105	VSH	7/83	MK
02	ECN 115-166	VSH	9/83	MK
00	"B" NEW	MJ	2/84	
03	"A" ECN 0077	WS	2-9-84	MK
00	"C,D" NEW	DBW	5-30-84	DLG
*	ECN 4946	J.A.	12/16/85	
*	"E" NEW	AR	4/30/86	MK
*	ECN 5202	J.A.	11/14/86	MK



NOTES:
1. OBSERVE POLARITY AND ORIENTATION MARKINGS ON ALL COMPONENTS.
2. FOR SCHEMATIC SEE C5809TAB
3. INSERT ALL COMPONENTS FULLY INTO BOARD.



REV	ITEM	QTY	REF. DESIG.	PART NO.	DESCRIPTION
1					
			12	U1	C6037H PRE GRM IC ASSY-SPANISH
	1		12	U1	C6037F PRE GRM IC ASSY-GERMAN
		1	12	U1	C6037J PRE GRM IC ASSY-FRENCH
			12	U1	C6037G PREPROGRAMMED IC-JAP
1	1	1	16	Y1	230006 CRYSTAL 6.144MHz
1"	1"	1"	15	———	310026 TAPE, VINYL PLASTIC ½"
1	1	1	14	U1	215005 SOCKET, 40 PIN IC DIP
1	1	1	13	U2	486469 IC 74LS03
			12	U1	C6037E PREPROGRAMMED IC
1	1	1	11	RN1	474005 RES NETWORK 4.7Kx9
1	1	1	10	P4	211501 CONN 1X5 HDR RT AGL
1	1	1	9	P3	212210 CONN 2x7 HDR RT AGL
1	1	1	8	P2	211823 CONN 1X8 HDR RT AGL
1	1	1	7	P1	212359 CONN 1X16 HDR RT AGL
1	1	1	6	C7	152015 CAP 6.8µf 20V 10% TANT
1	1	1	5	C5	150006 CAP 20pf 300V 5% MICA
1	1	1	4	C4	150001 CAP 5pf 500V 10% MICA
1	1	1	3	C3	152102 CAP 1µf 35V 20% TANT
3	3	3	2	C1, 2, 6	154034 CAP .1µf 50V 10% CER
1	1	1	1	———	C5809AA P C BOARD
E	D	C	B	A	

KEY TABLE	
CONN.	POSITION
P1	NONE
P2	NONE
P3	NONE
P4	PIN 4

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SEE TABLE 2115 (NEXT ASSY / USED ON)

APPLICATION

MATERIAL ———

FINISH ———

DRAWN ——— DATE 3-14-83
CHECKED [illegible] DATE 4/15/83
ENGINEER M. Kelly DATE 4/15/83
APPROVED D. Bunker DATE 4/15/83

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS =
2 PLACE DECIMALS =
3 PLACE DECIMALS = } ±%
ANGLES =

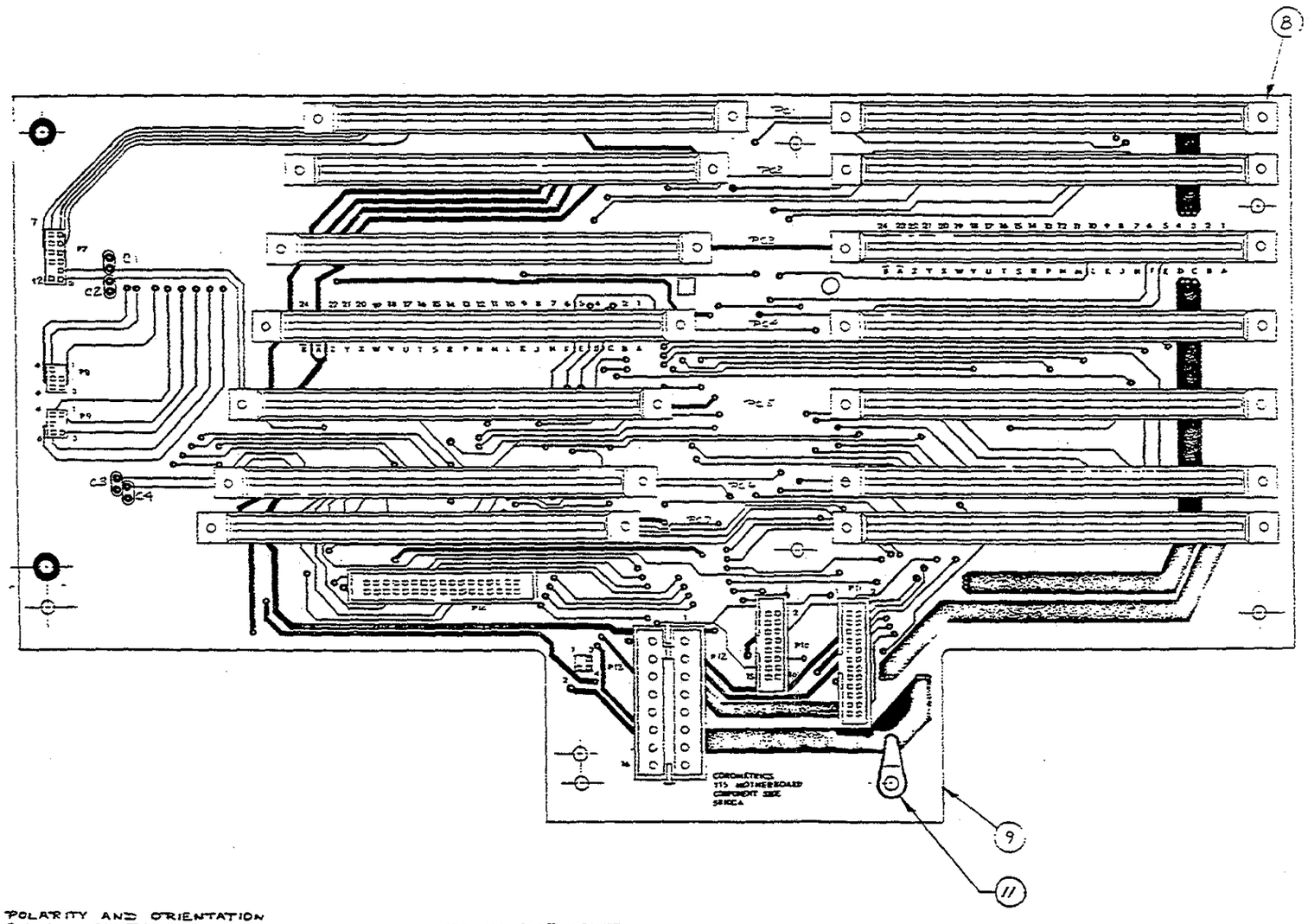
COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE
KEYPAD PROCESSOR ASSEMBLY

SIZE	DRAWING NUMBER	REV
C	5809TAB	*

SCALE 2:1 SHEET 1 OF 1

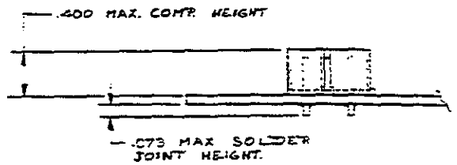
REVISIONS			
STR	DESCRIPTION	DATE	APPROVED
00	NEW PER ECN 4318	JUNE-84	[illegible]
5	PER ECN 4390	11/16/87	SK
01	PER ECN 5767	1/26/87	[illegible]
02	ECN 5767 REV UPDATE, NO CHG	FR 1/05/87	SK



KEY TABLE	
CONNECTOR	PIN REMOVED
P7	11
P8	1
P9	2
P12	1

NOTES:

1. OBSERVE POLARITY AND ORIENTATION MARKINGS ON ALL COMPONENTS.
2. FOR SCHEMATIC SEE D5810EC



	1	11	———	216001	GND LUG #6
	4	10	C1 - C4	154034	CAP 0.1μF 50V 10% CER
	1	9	———	D5810EA	P.C. BRD.
	14	8	PC1 - PC7	213700	CONN. 2x24 P.C. EDGE
	1	7	P14	213203	HDR. 2x17 RIBBON
	1	6	P11	212715	HDR. 2x12 RIBBON
	1	5	P10	212360	HDR. 2x8 RIBBON
	1	4	P7	212120	HDR. 2x6 .1 CTR.
	2	3	P8, P9	211629	CONN. HDR. 6 PIN 2x3
	1	2	P13	211416	CONN. HDR. 4 CTR 2x2
	1	1	P12	210021	RECPT 14 CKT HDR.
QTY.	ITEM	REF DESIG.	PART NO.	DESCRIPTION	

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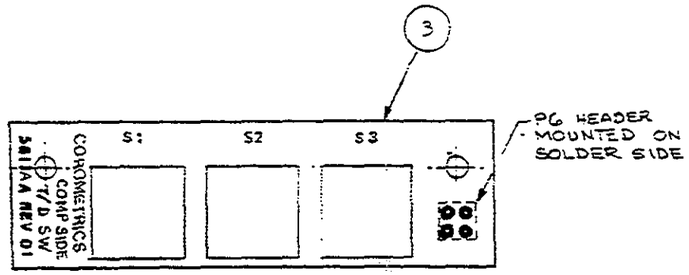
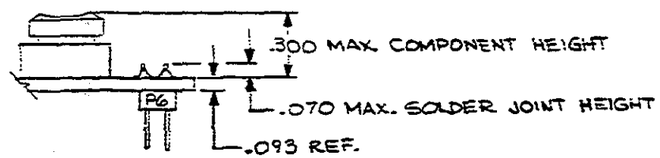
CORONETRICS MEDICAL SYSTEMS

MOTHERBOARD ASSY

D | 5810E | 02

REVISIONS			
SYM	DESCRIPTION		DATE / APPROVED
00	NEW		4-18-83
01	ECN 115-37	VSH	5/83





NOTES:

1. OBSERVE POLARITY & ORIENTATION MARKINGS ON ALL COMPONENTS.
2. FOR SCHEMATIC SEE A5811AC.
3. INSERT ALL COMPONENTS FULLY INTO BOARD.

QTY	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
A				
1	3	C5811AA		PC BRD
3	2	S1, S2, S3	511059	SWITCH, P.B. SPST N.O.
1	1	P6	211416	HEADER, 2X2 BERG

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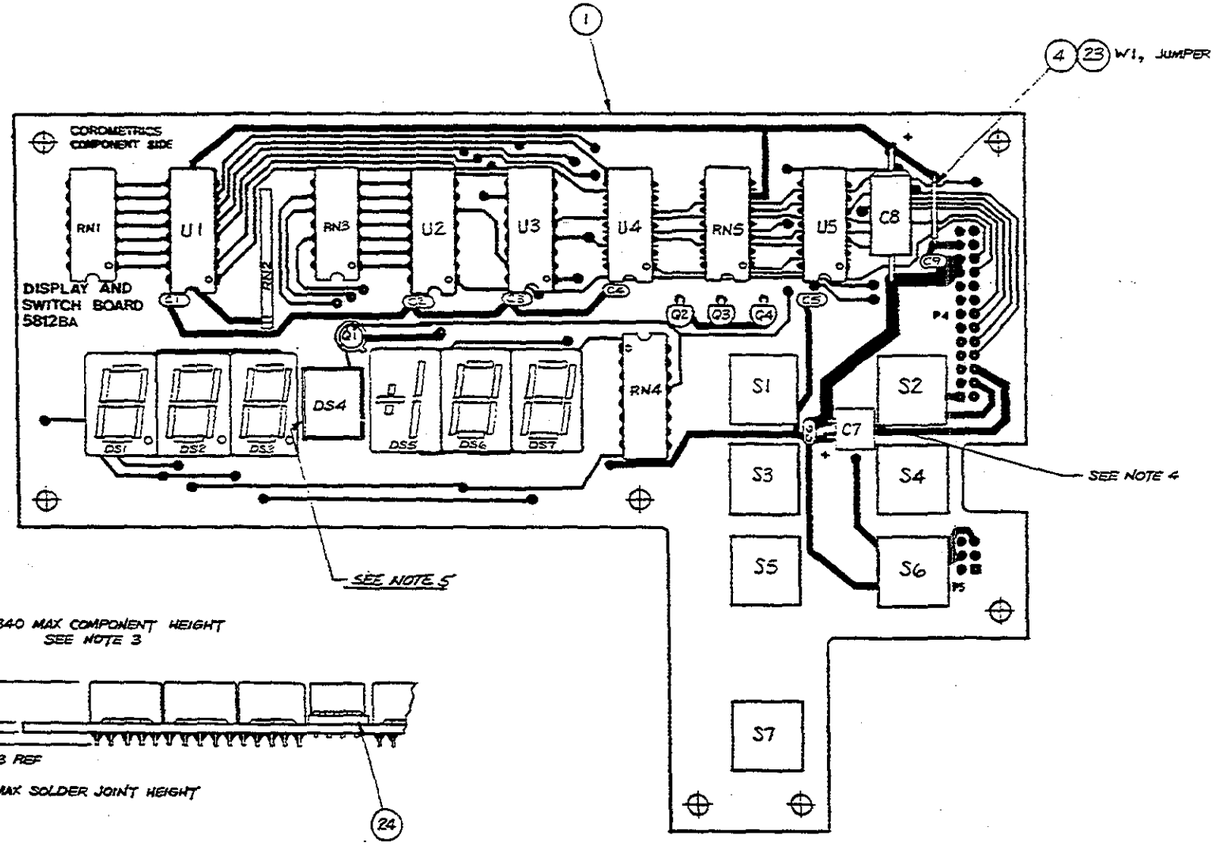
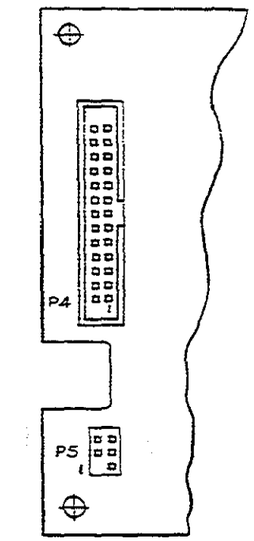
	TL	A.M. 4-18-83	COROMETRICS MEDICAL SYSTEMS, INC
		SC 4-28-83 4/22/05	TITLE: TIME/DATE SWITCH ASSEMBLY
DG393A 142	TL	DL Bamber 4-28-83	SIZE C / DRAWING NUMBER 5811A / 01
DS726B 115			SCALE 2:1 / SHEET 1 OF 1
APPLICATION			

REVISIONS			
ECN	DESCRIPTION	DATE	APPROVAL
00	NEW PER ECN 4481	R.A.R. 8/31/84	





PARTIAL SOLDER SIDE VIEW
(MOUNT CONNECTORS AS SHOWN)

NOTES:
1. OBSERVE POLARITY AND ORIENTATION MARKING ON ALL COMPONENTS.
2. FOR SCHEMATIC SEE DS812CC
3. INSERT ALL COMPONENTS FULLY INTO BOARD.
4. BEND C7 OVER APPROX. 90° FLAT ONTO BOARD SURFACE.
5. ORIENT DS4 WITH WRITING ON THIS SIDE

QTY	ITEM	REF. DESIG.	PART NO.	DESIGNATION
	2	24	215051	SPACER, .060 THICK
	1*	23	608047	SLEEVING, TEFLON #24
1		22	C7	152015	CAP 6.8uf 20V 10% TANT
1		21	U3	486571	I.C. TTL 74LS175
1		20	U4	486470	I.C. 74LS04
1		19	U5	486516	I.C. TTL 7406
1		18	Q1	484027	XSTR SI NPN 2N2222A
2		17	RN1, RN3	474016	RES NTWK 680Ω 7 RES DIP
7		16	S1—S7	511065	SWITCH, SPST-NO W/CAP
2		15	U1, U2	486429	I.C. SN7447A
3		14	Q2, Q3, Q4	4830I2	TRANSISTOR MPS4355G
1		13	RN2	474011	RES NTWK 150Ω 9 RES SIP
1		12	RN5	474015	RES NTWK 150Ω 7 RES DIP
1		11	RN4	474014	RES NTWK 1K 8 RES DIP
1		10	DS5	390055	DISPLAY, OVERFLOW GRN
1		9	DS4	390056	LIGHT BAR, YEL
3		8	DS1, DS2, DS3	390053	7 SEG DISPLAY YEL
2		7	DS6, DS7	390054	7 SEG DISPLAY GRN
1		6	P4	212807	HEADER 2X13 J SHROUDED
1		5	P5	211629	CONN. HEADER 6 PIN 2X3
1*		4	——	606407	WIRE, BUS #24 AWG
7		3	C1,2,3,4,5,6,9	154034	CAP .1uf 50V 10% CER
1		2	C8	152113	CAP 68μf 15V 20% TANT
1		1	——	D5812BA	P.C. BOARD

P5	PIN 1
P4	NONE
CONN	POSITION
KEY	TABLE

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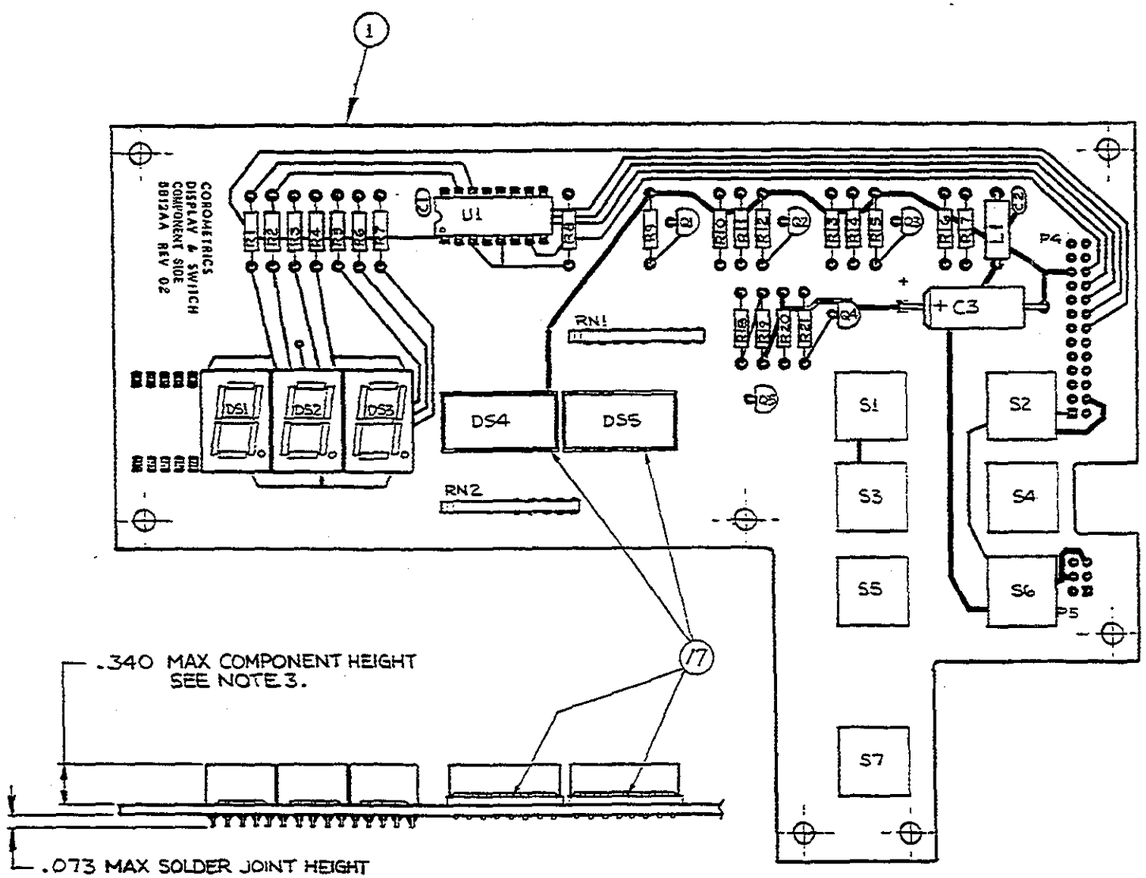
D5812BA 115
NEXT ASS'Y USED ON
APPLICATION

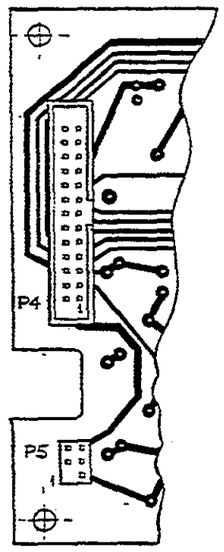
MATERIAL ~
FINISH ~

R.A.R. 11-30-83
E.Schmidt 12-28-83
J.D.R. 1-17-84

CORDOMETRICS MEDICAL SYSTEMS, INC.
TITLE DISPLAY & SWITCH BD. ASSEMBLY
SIZE D DRAWING NUMBER 5812C REV 00
SCALE 2/1 SHEET 1 OF 1

REVISIONS			
DWN	DESCRIPTION	DATE	APPROVAL
00	NEW	R.A.R. 11-3-84	





PARTIAL SOLDER SIDE VIEW

NOTES:

1. OBSERVE POLARITY AND ORIENTATION MARKINGS ON ALL COMPONENTS.
2. FOR SCHEMATIC SEE D5812DC.
3. INSERT ALL COMPONENTS FULLY INTO BOARD.

QTY	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
2	17	———	215049	PAD, MTG, 16PIN, .060THK
7	16	S1, S2, S3 S4, S5, S6 S7,	511065	SWITCH, SPST-NO PB W/CAP
1	15	U1	486429	IC 7447A
5	14	Q1, Q2, Q3 Q4, Q5	483012	XSTR 4355
2	13	RN1, RN2	474011	RES NTWK SIP 150Ω 2%
7	12	R1, R2, R3 R4, R5, R6 R7	471195	RES 62Ω 1/4W 5%
7	11	R11, R14, R17 R18, R19, R20 R21	471149	RES 470Ω 1/4W 5%
1	10	R8	471126	RES 4.7K 1/4W 5%
6	9	R9, R10, R12 R13 R15, R16	471109	RES 10K 1/4W 5%
3	8	DS1, DS2, DS3	390053	7SEG DISPLAY YEL .56"
2	7	DS4, DS5	390048	LIGHT BAR, YEL
1	6	P4	212807	CONN 2×13 PIN HDR
1	5	P5	211629	CONN 2×3 PIN HDR
1	4	L1	180007	INDUCTR, 47μH 10% MLD
2	3	C1, C2	154034	CAP .1μF 50V 10%
1	2	C3	152113	CAP 68μF 15V 20%
1	1	———	D5812AA	P.C. BOARD

KEY TABLE	
CONN	POSITION
P4	NONE
P5	PIN 1

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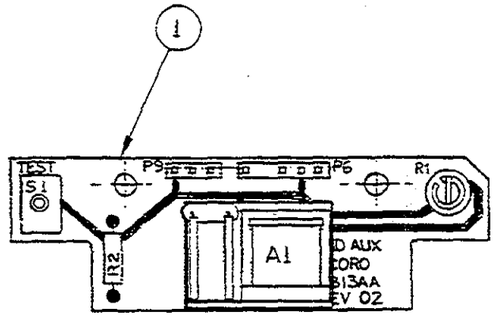
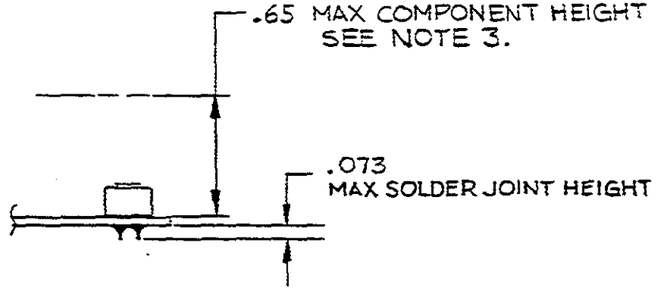
MATERIAL	———	R.A.R. 11-30-84	CORONETRICS MEDICAL SYSTEMS, INC.
FINISH	———		DISPLAY & SWITCH BD ASSEMBLY
D0394A	L62	SIZE D	DRAWING NUMBER 5812D REV 00
NEXT ASSY	USED ON	SCALE 2/1	SHEET 1 OF 1
APPLICATION			

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
00	NEW	3-14-83	
01	ECN 115-155 D.B.W.	10-3-83	





NOTES:

1. OBSERVE POLARITY AND ORIENTATION MARKINGS ON ALL COMPONENTS.
2. FOR SCHEMATIC SEE B5813AC
3. INSERT ALL COMPONENTS FULLY INTO BOARD.

QTY.	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
1	7	S1	514013	SWITCH, SPST, MOM PB
1	6	R2	471126	RES 4.7KΩ 1/4W 5%
1	5	R1	475011	POT 10KΩ 3/4T
1	4	P9	211316	HEADER, 1X3 PIN
1	3	P6	211506	HEADER, 1X5 PIN
1	2	A1	400017	INVERTER, DC TO AC
1	1	———	5813AA	PC BOARD

KEY TABLE	
CONN	POSITION
P6	PIN 4
P9	NONE

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D595EA	115
NEXT ASSY	USED ON
APPLICATION	

MATERIAL: ———
FINISH: ———

DRAWN: [illegible] DATE 3-14-83
CHECKED: [illegible] DATE 4/14/83
ENGINEER: M. Hadley DATE 4/15/83
APPROVED: [illegible] DATE 4/.../83

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± —
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE: KEYPAD AUXILIARY BD ASSEMBLY

SIZE	DRAWING NUMBER	REV.
C	5813A	01

SCALE 2/1 SHEET 1 OF 1

NOTES:

1— ADHESIVE BOND CONTACT PLATE, ITEM 3, TO BASE, ITEM 1, WITH ADHESIVE, ITEM 9. DO NOT PERMIT EXCESSIVE ADHESIVE TO REMAIN ON BOTTOM OF BASE. ALLOW 3 HRS ROOM TEMP. TO CURE.

2— ADHESIVE BOND BEND RELIEF BUSHING, ITEM 6, TO BASE, ITEM 1, WITH ADHESIVE, ITEM 10, AFTER PROCEDURE IN NOTE 5.

3— FILL BASE CAVITY WITH HOT MELT ADHESIVE ITEM 7, TO COVER ALL COMPONENTS BUT DO NOT ALLOW ON TOP SEAT LIP ALL AROUND. ALLOW 1 HR. ROOm TEMP. TO CURE.

4— ADHESIVE BOND TOP, WITH HOT STAMP DOTS ORIENTED AT PUSH POSTS, TO BASE USING ITEM 10. DO NOT PERMIT ADHESIVE TO CONTACT ANY APPEARANCE SURFACE.

5— SOLVENT BOND BEND RELIEF BUSHING TO CABLE JACKET WITH ITEM 11.

NOTES: CONT'D

6— FILL UNUSED HOLES IN HOUSING WITH CONTACTS, ITEM 19.

7— TIE THREE SHIELDS TOGETHER AND CONNECT TO PIN #6

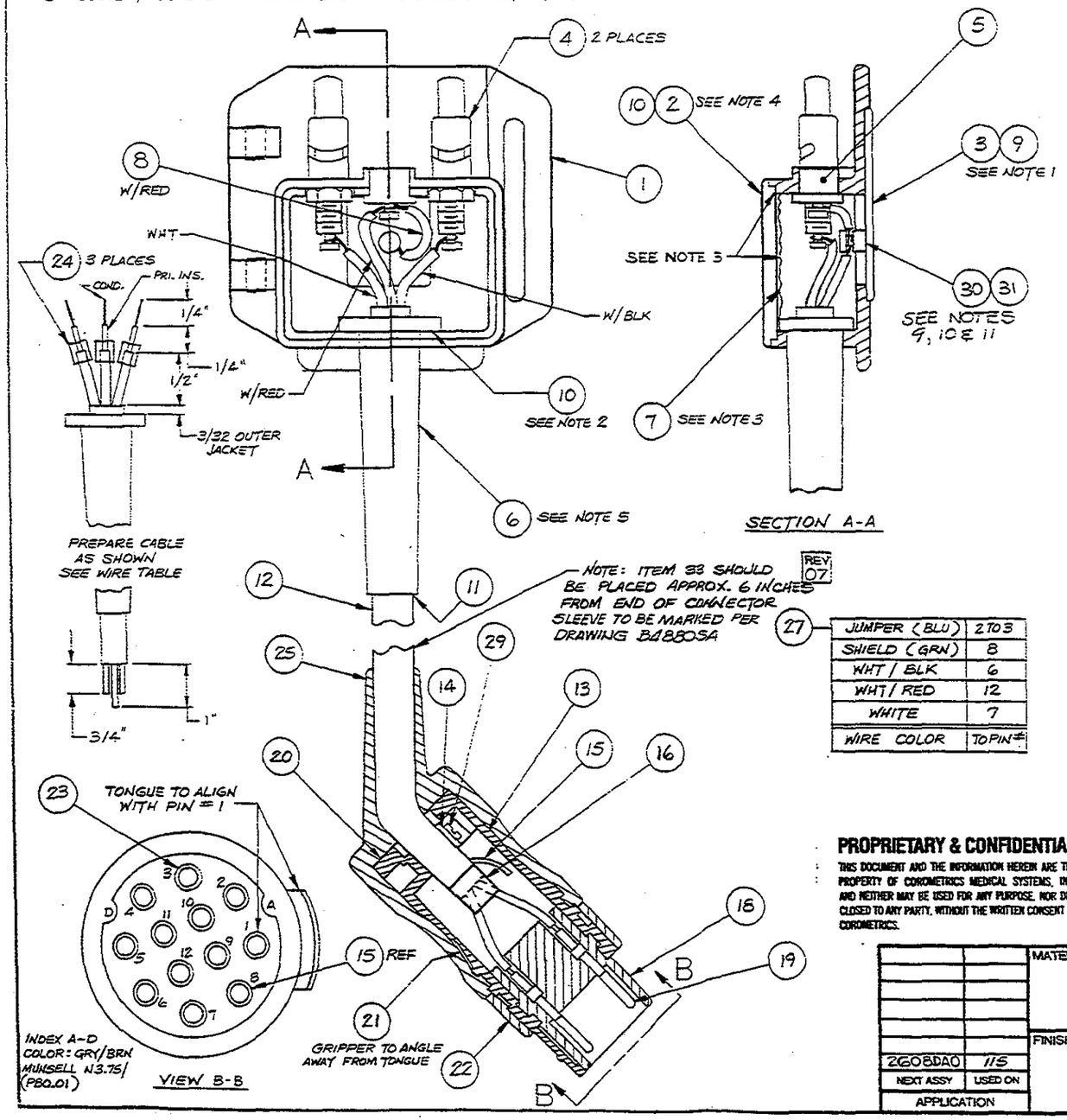
8— PROTECT CONTACT PLATE FROM BEING SCRATCHED DURING HANDLING.

9— MAINTAIN UNBLEMISHED APPEARANCE SIDE OF PLATE.

10— SOLDER STUD TO BURR SIDE OF CONTACT PLATE.

11— CENTER STUD TO SMALL OPENING WITHIN ±3/32"

REVISIONS				
SYM	DESCRIPTION		DATE	APPROVAL
00	NEW 'B'			
01	REVISED PER ECN 4544	dkpl	1/14/82	
02	REVISED PER ECN 4566	dkpl	3/31/83	
03	ECN 4679	JA	5/22/85	
04	ECN 4734	dkpl	7/5/85	
05	ECN 4849	dkpl	12/2/85	
06	ECN 5169 ITEM 28 WAS 410008	J.A.	5/6/86	
07	ECN 5501 ITEM 33 WAS B4860SA, 2" WAS 1" (NOTE REF. TO ITEM 33	J.A.	7/16/86	
08	ITEM 1 WAS C6163BA, ECN 5485	AR	10-10-86	
00	ECN 5544 'D' NEW	VS	1/87	



27	WIRE COLOR	TO PIN #
	JUMPER (BLU)	2 TO 3
	SHIELD (GRN)	8
	WHT / BLK	6
	WHT / RED	12
	WHITE	7

REV	QTY	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
	1	33		608080	SLEEVE MARKER
	1	32		B2023AA	LEG PLATE STRAP
	AR	31		540068	SOLDER, SN 40
	1	30		A6185AA	STUD
	2	29		210182	SCREW CLAMP, M2.6 X 10
REV 06	1	28	NOT SHOWN	410112	AIRBAG BAG
	1"	27	JUMPER	605106	WIRE, #24 AWG, BLU
	1	26	NOT SHOWN	A5979AA	LABEL
	1	25		210184	GRIPPER, 5-7mm
	3/4"	24		608025	SHRINK TUBING 1/8" I.D.
D NEW	1	23		210226	CONTACT, MALE, 18 mm LG
	1	22		210178	RING, PLASTIC 21.8 X 4
	1	21		210176	PLASTIC RING
	1	20		210186	HALF-SHELL W/CLAMP 5-7MM
D NEW	11	19		210227	CONTACT, MALE 1.65mm
	1	18		212133	PLUG, 12CKT GREY/BRN, A-D
		17			
	1/4"	16		608045	SHRINK TUBING
	1.5"	15	SHIELD	605105	WIRE, #24AWG, GRN
	1	14		210181	CLAMP, 3-7MM
	1	13		210179	HALF-SHELL W/TONGUE
	62	12		A5821AA	CABLE 3 COND SHIELDED
	A/R	11		160007	SOLVENT VC-1
	A/R	10		160034	ADHESIVE, LOCITE #414
	A/R	9		160064	ADHESIVE - HARDMAN 04023
	1"	8		605112	WIRE, #24 AWG, W/RED
	A/R	7		160063	ADHESIVE, HOT MELT 6384
	1	6		B5847CA	BEND RELIEF BUSHING
	1	5		A6184AA	TERMINAL
	2	4		B2604AA	POST, PUSH MODIFIED
	1	3		A5876CA	CONTACT PLATE
	1	2		B6162AA	TOP, LEG PLATE
REV 08	1	1		C6163CA	BASE, LEG PLATE

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2608DA0	11S
NEXT ASSY	USED ON
APPLICATION	

MATERIAL ~

FINISH ~

DRAWN dkpleddarity DATE 2/17/84
CHECKED E. Nelson DATE 1-4-85
ENGINEER DATE 1-4-85
APPROVED DATE 1/6/84

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± ~
2 PLACE DECIMALS ± ~
3 PLACE DECIMALS ± ~
ANGLES ± ~

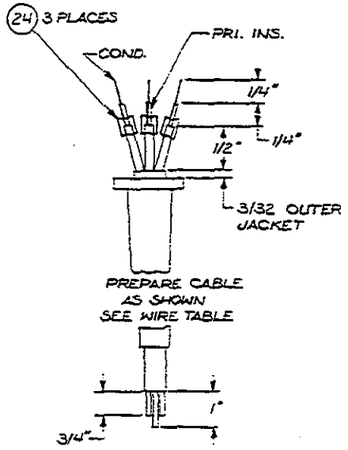
COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

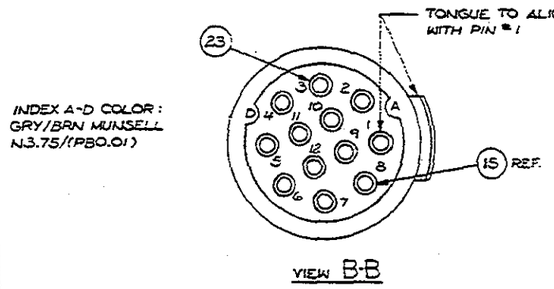
TITLE CAT NE 2608DAC
-11S-LEG PLATE ASSEMBLY

SIZE	DRAWING NUMBER	REV.
C	5846D	00

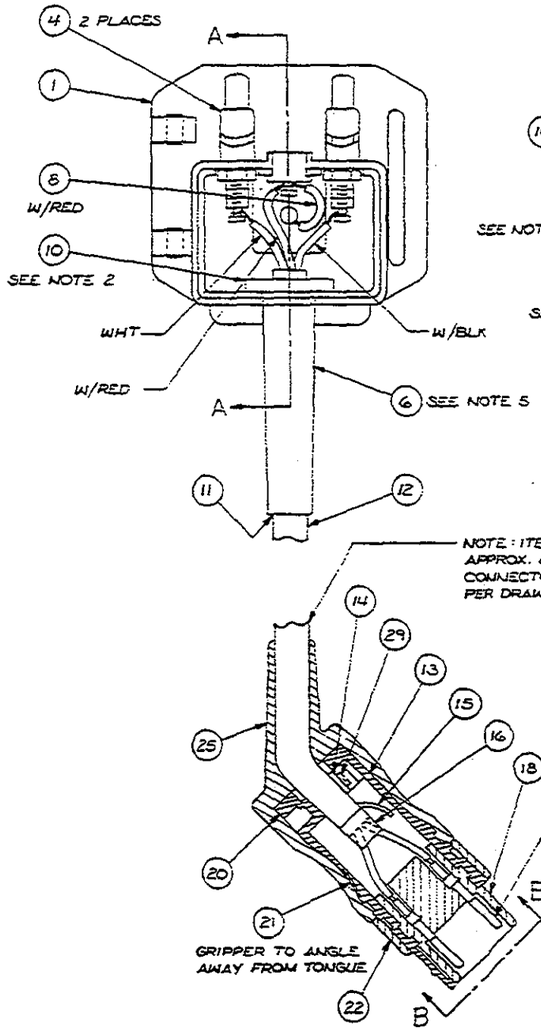
SCALE NONE SHEET 1 OF 1

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
01	5903	REDRAWN	JC	8/87	BS	

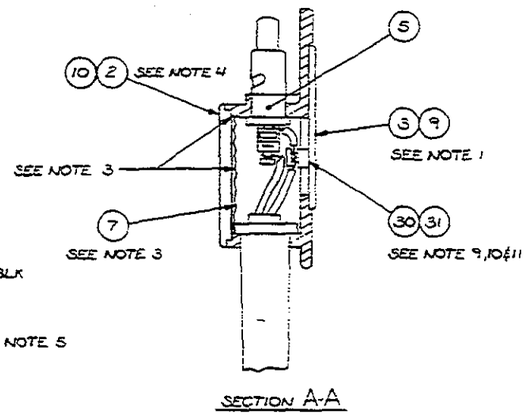




VIEW B-B



NOTE: ITEM 33 SHOULD BE PLACED APPROX. 6 INCHES FROM END OF CONNECTOR. SLEEVE TO BE MARKED PER DRAWING B48804M.



SECTION A-A

NOTES:

1. ADHESIVE BOND CONTACT PLATE, ITEM 3, TO BASE, ITEM 1, WITH ADHESIVE, ITEM 9. DO NOT PERMIT EXCESSIVE ADHESIVE TO REMAIN ON BOTTOM OF BASE. ALLOW 3 HRS ROOM TEMP. TO CURE.
2. ADHESIVE BOND BEND RELIEF BUSHING, ITEM 6, TO BASE, ITEM 1, WITH ADHESIVE, ITEM 10, AFTER PROCEDURE IN NOTE 5.
3. FILL BASE CAVITY WITH HOT MELT ADHESIVE, ITEM 7, TO COVER ALL COMPONENTS BUT DO NOT ALLOW ON TOP SEAT LIP ALL AROUND. ALLOW 1 HR. ROOM TEMP TO CURE.
4. ADHESIVE BOND TOP, WITH HOT STAMP DOTS ORIENTED AT PUSH POSTS, TO BASE USING ITEM 10. DO NOT PERMIT ADHESIVE TO CONTACT ANY APPEARANCE SURFACE.
5. SOLVENT BOND BEND RELIEF BUSHING TO CABLE JACKET WITH ITEM 11.
6. FILL UNUSED HOLES IN HOUSING WITH CONTACTS, ITEM 19.
7. TIE THREE SHIELDS TOGETHER AND CONNECT TO PIN #8.
8. PROTECT CONTACT PLATE FROM BEING SCRATCHED DURING HANDLING.
9. MAINTAIN UNBLEMISHED APPEARANCE SIDE OF PLATE.
10. SOLDER STUD TO BURR SIDE OF CONTACT PLATE.
11. CENTER STUD TO SMALL OPENING WITHIN ±3/32"

27

WIRE COLOR	TO PIN
JUMPER (BLU)	2 TO 3
SHIELD (GRN)	8
WHT / BLK	6
WHT / RED	12
WHITE	7

		ITEM	REF. DESIG.	PART NO	DESCRIPTION
	1	33		608080	SLEEVE MARKER
	1	32		B2023AA	LEG PLATE STRAP
	Ø	31		540068	SOLDER, SN 40
	1	30		A6185AA	STUD
	2	29		210182	SCREW CLAMP, M 2.6 X 10
	1	28	NOT SHOWN	410112	AIRCAP BAG
	.083	27	JUMPER	605106	WIRE, #24 AWG, BLU
	1	26	NOT SHOWN	A5979BA	LABEL
	1	25		210184	GRIPPER, 5-7 MM
	.062	24		608028	SHRINK TUBING 1/8" ID
	1	23		210226	CONTACT, MALE, 18 MM LG
	1	22		210178	RING, PLASTIC 21.8 X 4
	1	21		210176	PLASTIC RING
	1	20		210186	HALF-SHELL W/CLAMP 5-7 MM
	11	19		210227	CONTACT, MALE 16.5 MM
	1	18		212133	PLUG, 12 CKT GREY/BRN A-D
		17			
	.021	16		608048	SHRINK TUBING
	.125	15	SHIELD	605105	WIRE, #24 AWG, GRN.
	1	14		210181	CLAMP, 3-7 MM
	1	13		210179	HALF-SHELL W/TONGUE
	10.2	12		A5821AA	CABLE 3 COND SHIELDED
	Ø	11		1600007	SOLVENT VC-1
	Ø	10		1600034	ADHESIVE, LOCTITE # 414
	Ø	9		1600064	ADHESIVE-HARDMAN 04023
	.083	8		605112	WIRE, #24 AWG, W/RED
	Ø	7		1600063	ADHESIVE, HOT MELT 6384
	1	6		B5847CA	BEND RELIEF BUSHING
	1	5		A6184AA	TERMINAL
	2	4		B2604AA	POST, PUSH MODIFIED
	1	3		A5876CA	CONTACT PLATE
	1	2		B6162BA	TOP, LEG PLATE
	1	1		C6163CA	BASE, LEG PLATE
	QTY	ITEM	REF. DESIG.	PART NO	DESCRIPTION

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DO NOT SCALE - WORK TO DIMENSIONS SHOWN. REMOVE BURRS, BREAK SHARP EDGES & CORNERS.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS ± .XX
2 PLACE DECIMALS ± .XX
3 PLACE DECIMALS ± .XXX
ANGLES ± XX°

DRAWN: JOHN CUSANO DATE 8/31/87
CHECKED: B. SHOTWELL DATE 8-31-87
ENGINEER: DATE:
APPROVED: DATE: 9/3/87

COROMETRICS® MEDICAL SYSTEMS, INC.
WALLINGFORD, CONNECTICUT

TITLE CATALOG NO. 2608LA0 11S-LEG PLATE ASSEMBLY 10' CABLE

5975A	11S
NEXT ASSY	USED ON
APPLICATION	

MATERIAL: N/A
FINISH: N/A

SIZE D | DRAWING NUMBER 5846E | REV 01
SCALE NONE | SHEET 1 OF 1

DIM 'A'	CATALOG #	PART NO.	REV	USED ON
BFT.	2260AAX	D5884C	04	115, 142, 145
10FT.	2260LAX	D5884W	05	115

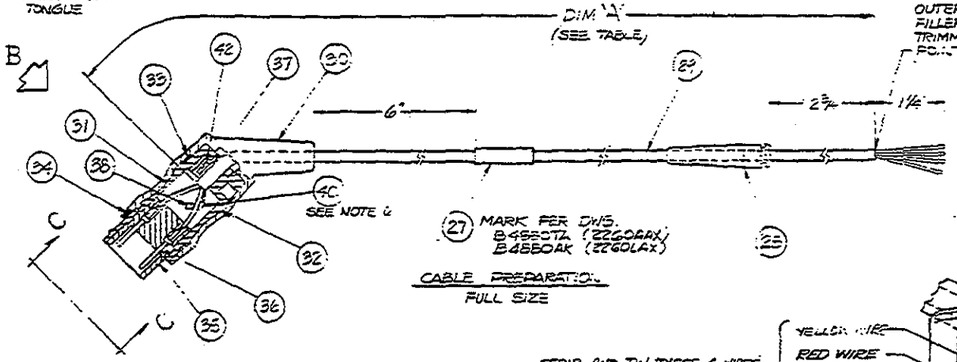
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
*	ECN 5804 - ITEM 24 WAS B4389AA -	JA 11-16-87	
*	ECN 5862 - ITEM 20 WAS C6899AA -	JA 11-17-87 MM	
*	ECN 5873 - ITEM 43 WAS 160042	VS 12/87	

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
02	REVISED - REDRAWN ECN 115-160	7/28/86	
03	ECN 115-146	7/28/86	
	REVISED AND RELEASED ECN 115-160	7/28/86	
04	ECN -115-184	10/29/86	
05	ECN 3201	5-8-87	
*	ECN 4000	7/29/87	
*	ECN 4395	9/24/87	
*	ECN 4460	J.A. 12/7/87	
09	ECN 4587	VSH 12/85	
10	ECN 4703	2/5/88	
11	ECN 4844	4/26/88	
12	ECN 4857	JA 4/27/88	
13	ECN 4936 (ITEM 20 WAS)	JA 6/28/88	
14	ECN 5160 ITEM 22 WAS 410008	JA 7/27/88	
15	ECN 5301: ITEM 27 WAS B4B6DTA, 6" WAS 12" (NOTE REF. TO ITEM 27)	11/16/88	
*	'V' MENT RELEASE	8/1/88	
16	ECN 5441	VS 9/16/88	
*	ECN 4956 (ITEM 20 WAS B4B6DTA)	JA 11/16/88	
*	ECN 5547	JA 11/16/88	
00	ECN 5642 - NEW 'C' & 'V' - ITEM 34 P/N WAS 210148, ITEM 41 P/N WAS 210152	VS 1/1987	
01	ECN 5685	1/11/89	
02	ECN 5786 (CW) ADD ITEM 33	JA 4/27/89	

GRIPPER TO ANGLE AWAY FROM TONGUE



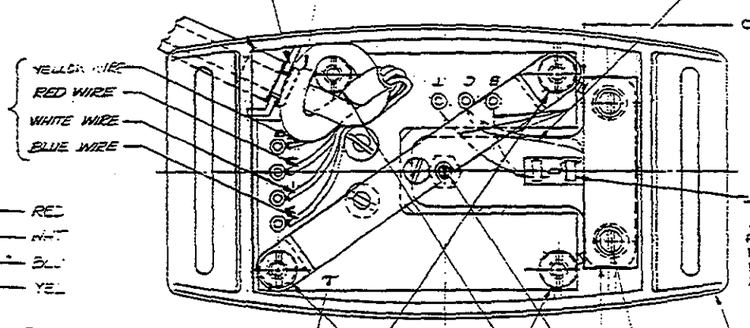
CABLE PREPARATION
FULL SIZE

(27) MARK PER DWG. B4B6DTA (2260AAX) B4B6DAK (2260LAX)

KEEP WIRES FROM LAYING ATOP THIS RIB

TIE OVERHAND KNOT AROUND POST APPROX. AS SHOWN AND PULL TIGHT. DRESS KNOT & LEAD WIRES SO AS NOT TO INTERFERE WITH POT ADJUST.

VIEW WITH COVER REMOVED


YELLOW WIRE
RED WIRE
WHITE WIRE
BLUE WIRE
CLAMP FLUSH TO BEAM EDGE.
NOTE: DO NOT PERMIT BEAM CLAMP (ITEM 12) TO REST ON TOP OF ANY PORTION OF THE GAGE PAD, CONTACTS, OR LEAD WIRES (ITEM 8).

STRIP AND TIN THESE 4 WIRES 3/8" ± 1/32" PRIOR TO ASSY.

(6) 1/2" LONG - 4 PLACES SOLDER AS SHOWN

NOTES:

1.

REV 12 2.

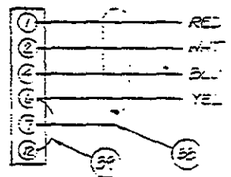
3. SOLDER LEADS FROM STRAIN GAUGE SOLDER TABS AS SHOWN. DOTTED LINES INDICATE TWO LEADS COMING FROM BOTTOM OF BEAM. (ITEM 1) LAY EXCESS LEAD MATERIAL SO THAT IT DOES NOT INTERFERE WITH OTHER COMPONENTS OR THE MOUNTING OF THE TOCO TOP.

4. ADJUST SCREW FOR .030-.040 CLEARANCE TO TOP OF BEAM. LOCTITE SCREW.

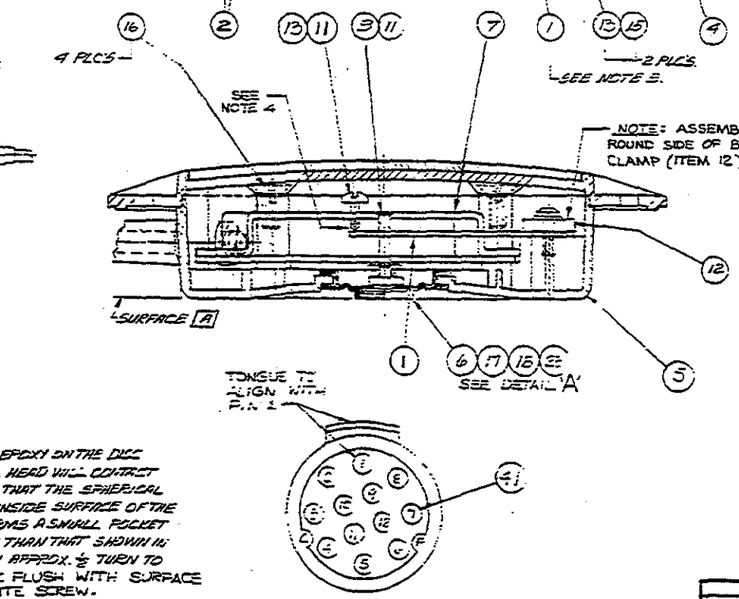
5. LOCATE NAMEPLATE IN READABLE POSITION UP RIGHT WITH CABLE EGRESS AT UPPER LEFT AS SHOWN IN TOP VIEW.

6. BRAID CONN. 3/16 ± 1/16 LONG EXTENDING FROM CABLE JACKET TOWARD CONNECTOR. COVER SOLDER JOINT WITH SHRINK TUBING (ITEM 43) 3/8 LONG.

WIRE COLOR	PIN NO.	USED FOR
RED	1	+ PRESSURE
WHT	2	- PRESSURE
BLU	4	EXCITATION
YEL	6	EXCITATION REFERENCE
	7	CHASSIS GROUND (SHLD)
	12	TOCO (JUMPER FROM 12 TO 6)

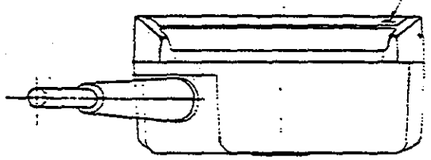


WIRING DIAGRAM

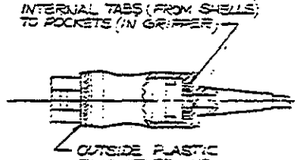


DO NOT ALLOW PLUNGER (ITEM 8) TO TOUCH STOP (ITEM 7).

SEE NOTE 5 (9)



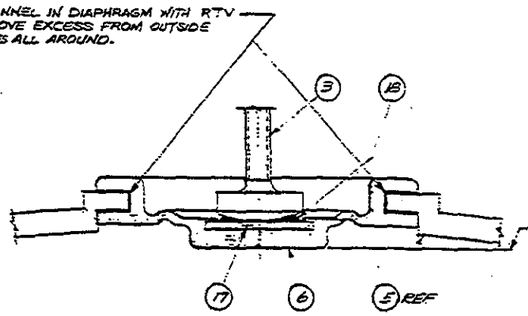
INTERNAL TABS (FROM SHELLS) TO POCKETS (IN GRIPPER)



OUTSIDE PLASTIC RING KEYED AND TAPER IN POSITION. KEY TAB OF RING TO TOP OF SHELL

VIEW B

FILL CHANNEL IN DIAPHRAGM WITH RTV AND REMOVE EXCESS FROM OUTSIDE SURFACES ALL AROUND.



DETAIL 'A'
SCALE: 5:1

PLACE A SMALL AMOUNT OF EPOXY ON THE DISC IN SEAL. WHERE SPHERICAL HEAD WILL CONTACT PART. ADJUST PLUNGER SO THAT THE SPHERICAL HEAD JUST TOUCHES THE INSIDE SURFACE OF THE DISC IN THE SEAL AND FORMS A SMALL POCKET IN THE EPOXY NO LARGER THAN THAT SHOWN IN DETAIL. ADVANCE SCREW APPROX. ± TURN TO MAKE SURFACE OF DISC FLUSH WITH SURFACE (A) WITHIN ±.015. LOCTITE SCREW.

VIEW C-C
SCALE: NONE

QTY	ITEM	REF DESIG.	PART NO	DESCRIPTION
			A4603-BA	SPACER POST
			160043	LOCTITE #414
			210182	SCREW M2.6X10
			213226	CONTACT, MALE .18mm LS
			608028	SHRINK TUBING 1/8 DIA.
			605408	WIRE #30 GRN
			605108	WIRE #24 GRN
			210181	CLAMP (8-5mm)
			213227	CONTACT, MALE, 1.65mm
			212135	HOUSING PIN C-F
			210178	PLASTIC RING
			210176	METAL RING - BRASS
			210180	HALF SHELL W/CLAMP 3-5mm
			210179	HALF SHELL W/TONGUE
			210183	GRIPPER (3-5mm)
			A5927BA	CABLE 4 COND SHIELDED
			B6898BA	BEND RELIEF BUSHING
			608039	SLEEVE MARKER 1/4"
		NOT SHOWN	A4B03CA	LABEL
		NOT SHOWN	B6389BA	INSTRUCTION SHEET
			160092	RTV 732
		NOT SHOWN	910112	AIRCAP BAG
		NOT SHOWN	A4B01BA	LABEL
		NOT SHOWN	C7514AA	ABDOMINAL STRAP-GRAY
			160019	LOCTITE #242 BLUE
			160020	EPOXY
			A5797AA	DISC. SEAL
			286266	SCREW 4-32 x 3/16 FLAT HD.
			285005	#2 LOCKWASHER INT. TOOTH
			281202	SCREW 2-56 x 1/2 LG B.H.M.S.
			B7419AA	CLAMP-BEAM
			160022	GLYPTAL
			A6034AA	SPACER
			D5992AA	NAMEPLATE
			D5992BA	NAMEPLATE
			605402	#36 MAGNET WIRE
			C7418AA	STOP, SEAL LIMIT
			C5879AA	DIAPHRAGM
			D5876BA	BASE
			D5873CA	TOP
			A5872BA	PLUNGER
			C57945	TOCO BOARD ASSY.
			B2270A	BEAM

QTY	ITEM	REF DESIG.	PART NO	DESCRIPTION

MATERIAL

FINISH

DRAWN Harry Teodoro 5-23-88
CHECKED [illegible] 6-16-88
ENGINEER [illegible] 6-16-88
APPROVED [illegible] 7/11/89

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES °

SEE TABLE
NEXT ASSY | USED ON
APPLICATION

CONSOLIDATED MEDICAL SYSTEMS, INC.
BRIDGEPORT INDUSTRIAL PARK, WILLIAMSPORT, CONNECTICUT

TITLE CAT NO 2260AAX, 2260LAX TOCO TRANSDUCER

SIZE D | DRAWING NUMBER 5884TAB | REV *
SCALE 2:1 | WEIGHT | SHEET 1 OF 1

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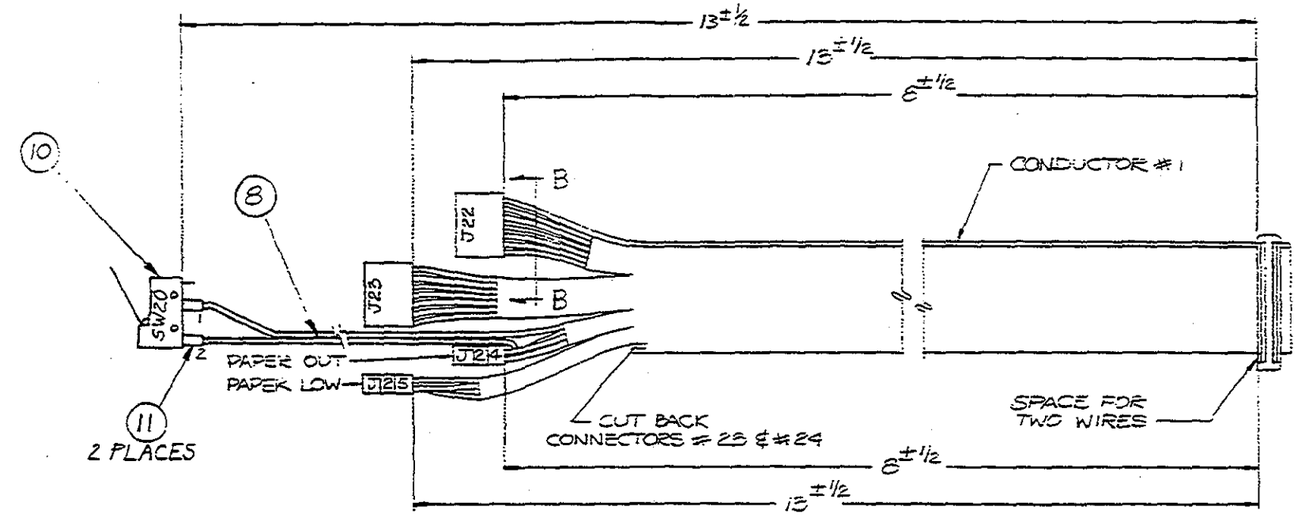
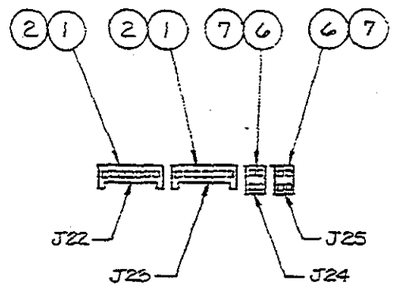
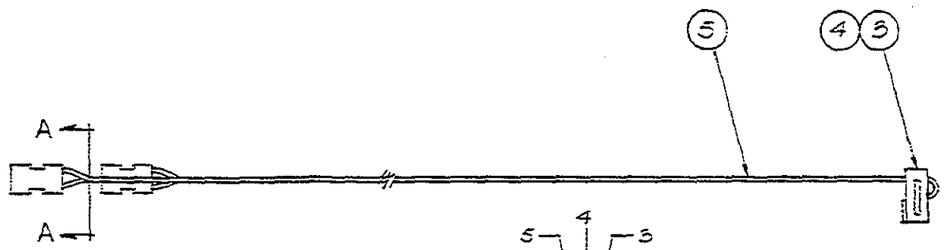
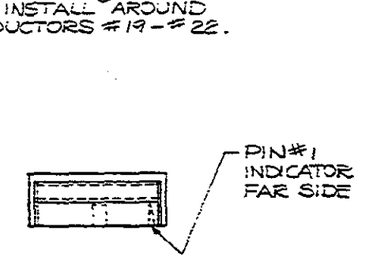
REVISIONS				
SYM	DESCRIPTION		DATE	APPROVAL
00	NEW ECN 4102	VSH	3/84	

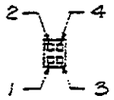


NOTES:
1. WITH INDELIBLE INK MARK (AS SHOWN)
   ITEMS (1) "J22" & "J23"
   ITEM (4) "J19"
   ITEMS (6) "J24" & "J25"
   ITEM (9) "SW 20"
2. ITEM (8) NOT SHOWN.
3. MARK ITEM (8) WITH ASSY. NO. AND INSTALL AROUND CONDUCTORS #19 - #22.

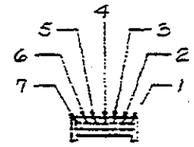








SECTION A-A
VIEW FROM WIRE INSERTION END - J24 & J25



SECTION B-B
VIEW FROM WIRE INSERTION END - J22 & J23

13	ORG	J19-13	J23-2	14"	
12	RED	" -12	" -3	"	
11	BRN	" -11	" -4	"	
10	BLK	" -10	" -5	"	
9	WHT	" -9	" -6	"	
8	GRY	" -8	J23-7	14"	
7	VIO	" -7	J22-1	9"	
6	BLU	" -6	" -2	"	
5	GRN	" -5	" -3	"	
4	YEL	" -4	" -4	"	
3	ORG	" -3	" -5	"	
2	RED	" -2	" -6	"	
1	BRN	J19-1	J22-7	9"	
COND Nº	COLOR	FROM	TO	LENGTH	

WIRING CHART

(ITEM 8)	VIO	SW20-2	J24-4	6"
24	YEL	J19-24		
23	ORG	" -23		
22	RED	" -22	J25-1	14"
21	BRN	" -21	" -4	"
20	BLK	" -20	" -3	"
19	WHT	" -19	J25-2	14"
18	GRY	" -18	J24-1	9"
17	VIO	" -17	SW20-1	14"
16	BLU	" -16	J24-3	9"
15	GRN	" -15	J24-2	9"
14	YEL	J19-4	J23-1	14"
COND Nº	COLOR	FROM	TO	LENGTH

WIRING CHART

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		1/2"	11		608028 SHRINK TUBING
		1	10	SW20	512018 MICRO SWITCH (LIGHT FORCE, GOLD CONTACTS)
		1	9		608095 TY-RAP, IDENTIFYING
		6"	8		605057 WIRE, #26 STRANDED, VIO.
		8	7		210144 CONTACTS, FEMALE
		2	6	J24, J25	211417 CONN. 4CKT HSNG.
		14"	5		600553 24 COND. COLOR CODED RIB. CBL
		1	4	J19	212506 CONN. 26 PIN FEMALE
		1	3		212805 STRAIN RELIEF
		14	2		210157 CONTACTS
		2	1	J22, J23	211701 1X7 HOUSING
		B	ITEM	REF. DESIG.	PART Nº DESCRIPTION
		QTY			

D5767D	115
NEXT ASSY	USED ON
APPLICATION	

MATERIAL: N
FINISH: N

DRAWN	VK 4-02	DATE 3/3/84
CHECKED	DEF	DATE 5/9/84
ENGINEER		DATE 5-23-84
APPROVED		DATE 5-23-84

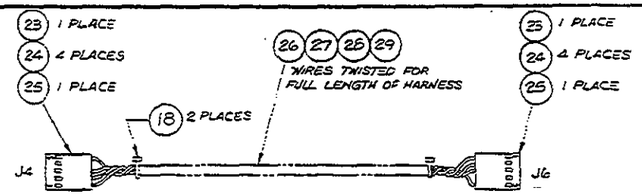
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ± N
3 PLACE DECIMALS ±
ANGLES ±

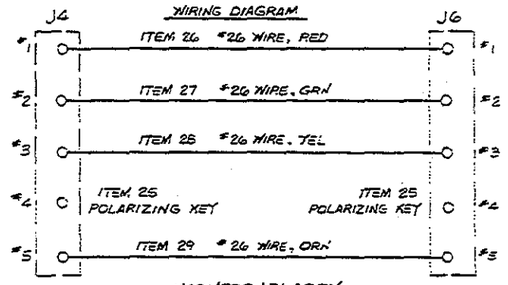
COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE: RECORDER BOARD TO RECORDER CABLE ASSY.

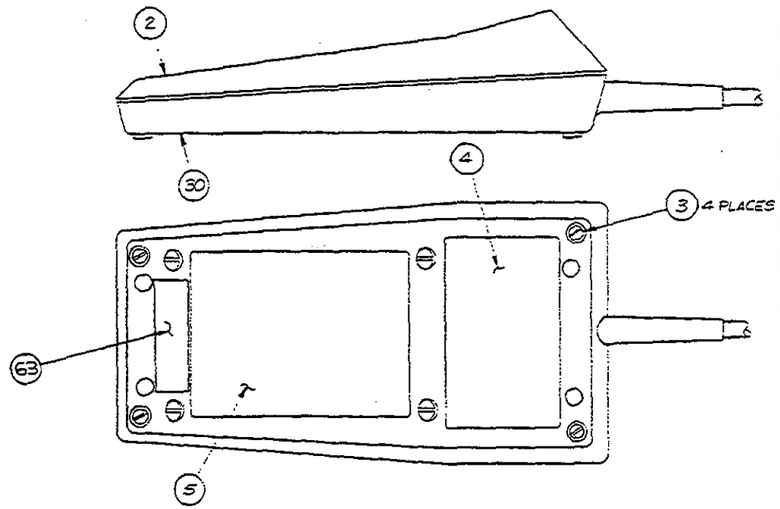
SIZE	DRAWING NUMBER	REV.
C	5937B	00

SCALE N | 1/ASSY | SHEET 1 OF 1



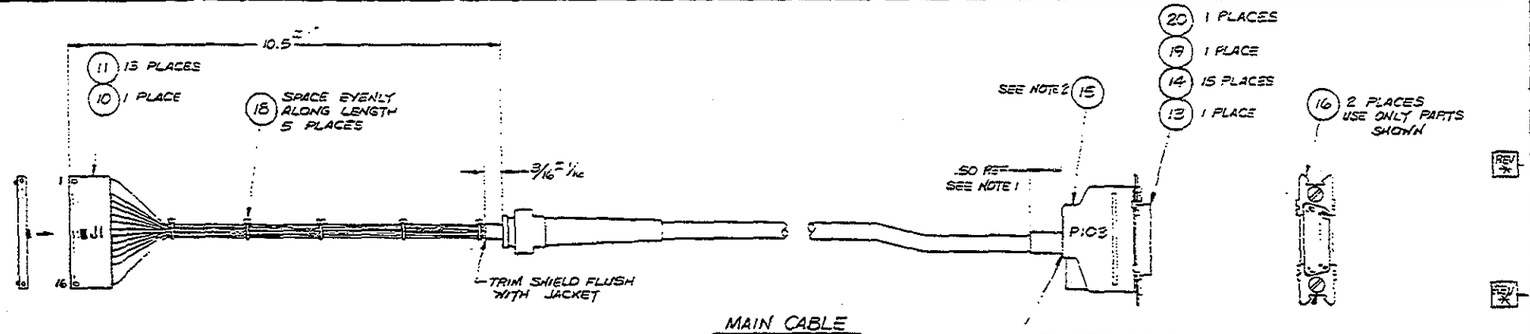


HARNESS 'B' ASSY

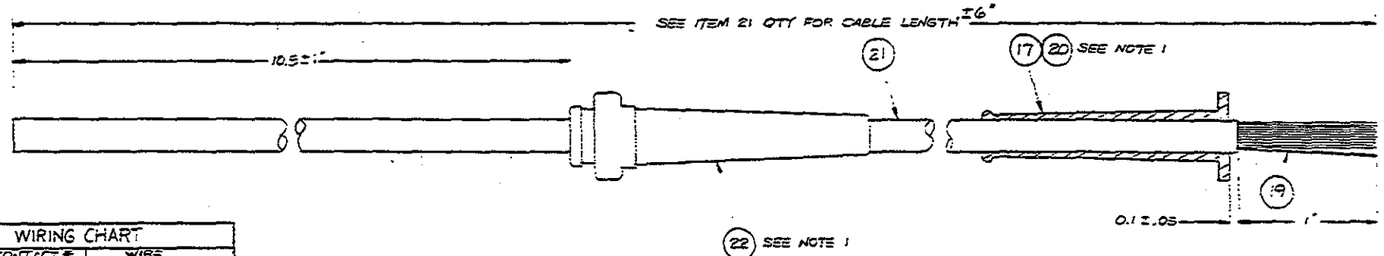


REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
←		REVISED & REDRAWN PER ECN 5266	[illegible]	7/84	[illegible]	
*	5453	ADD ITEM 7. ITEM 9 WAS 410113	J.A.	9-17-84	DS	
*	5616	ADD ITEM 63 (TO 'A' ONLY)	J.A.	12-4-84	DS	
*	5509	"F,G,H,J,K" WERE "A,B,C,D,E"	[illegible]	5/1985		

K	J	H	G	F	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
					29		605053	WIRE #26 ORG
.583 FT.					28		605054	YEL
					27		605055	GRN
					26		605052	WIRE #26 RED
2	2	2	2	2	25		210073	POLARIZING KEY
12	12	12	12	12	24		210090	CONTACT, FEMALE
2	2	2	2	2	23		211505	HOUSING 1 x 5
1	1	1	1	1	22		CS968AA	MOLDED STRAIN RELIEF
13'	13'	13'	7'	13'	21		A5882AA	KEYPAD CABLE
1	1	1	1	1	20		BS847DA	BEND RELIEF BUSHING
.208 FT.					19		605050	WIRE, #26 BLACK
6	6	6	6	6	16		608036	TTRAP
Ø	Ø	Ø	Ø	Ø	17		160007	SOLVENT CEMENT, YC-1
1	1	1	1	1	16		212310	SPRING LATCH
1	1	1	1	1	15		210190	BACKSHELL
15	15	15	15	15	14		210191	CONTACT, MALE
1	1	1	1	1	13		212311	CONNECTOR, 15 CIR.
					12			
13	13	13	13	13	11		210189	CONTACT, FEMALE
1	1	1	1	1	10		212356	HOUSING, 1 x 16
1	1	1	1	1	9	NOT SHOWN	410114	BAG, AIR-CAP, 10 x 15½
1					8		AS982EA	LABEL, SHIPPING SPA
	1				5		AS982DA	GER.
		1			5		AS982CA	FRN.
			1		8		AS982BA	JAP.
				1	8	NOT SHOWN	AS982AA	LABEL, SHIPPING DOM.
1	1	1	1	1	7	NOT SHOWN	410095	POLY BAG 2"x 3"
					6			
1					5		BS976FA	OPERATION SUMMARY LBL-SPA
	1				5		BS976DA	GER
		1			5		BS976CA	FRN
			1		5		BS976BA	JAP
				1	5		BS976AA	OPERATION SUMMARY LBL-ENG
1					4		BS975EA	SERIAL Nº LABEL -SPA
	1				4		BS975DA	GER
		1			4		BS975CA	FRN
			1		4		BS975BA	JAP
				1	4		BS975AA	SERIAL Nº LABEL -ENG
6	6	6	6	6	3		28431E	SCREW, #4-40 OVAL HD ⅝ LG
1					2		CS978KA	COVER COMPLETE SPA
	1				2		CS978JA	GER
		1			2		CS978HA	FRN
			1		2		CS978GA	JAP
				1	2		CS978FA	COVER COMPLETE - ENG
					1			
QUANT.					ITEM	REF. DESIG.	PART NO.	DESCRIPTION



MAIN CABLE



NOTES:

1- STRAIN RELIEF SOLVENT BONDED IN POSITION WITH ITEM 17.

2- INSERT GATE AND SETSCREW IN SLOT IN BACKSHELL ITEM 15.

REV 3 3- INSERT CONNECTOR OF MAIN HARNESS IN ITEM 7, BEFORE INSERTING ENTIRE ASSY. IN ITEM 9

WIRING CHART			
CONN.- CONTACT # FROM	TO	WIRE COLOR	GAUGE #
P103-2	J1-1	GRN	26
3	16	RED	26
4	4	BLK	26
5	5	WHT	
6	3	ORG	
7	8	BLU	
9	9	WHT/BLK	
10	10	RED/BLK	
11	11	GRN/BLK	
12	12	ORG/BLK	
13	13	BLU/WHT	
14	6	BLK/WHT	
P103-15	J1-7	RED/WHT	22
	P103-1	SHIELD	(USE 1" OF ITEM 19)
P103-8	P103-2	BLK	26 (USE 1½" OF ITEM 19)

S954K	00	SPANISH	2115ABX
S954J	00	GERMAN	2115AEX
S954H	00	FRENCH	2115ADX
S954G	00	JAPANESE	2115AHX
S954F	00	ENGLISH	2115AAX
PART Nº	REV	LANGUAGE	CAT Nº

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DO NOT SCALE - WORK TO DIMENSIONS SHOWN. TOLERANCE UNLESS OTHERWISE SPECIFIED: FRACTIONS ±1/64, 2 PLACE DECIMALS ±.01, 3 PLACE DECIMALS ±.005, ANGLES ±1°. NEXT ASSY: [illegible] USED ON: [illegible] APPLICATION

DRAWN [illegible] DATE 5/16/84
CHKD S. SNOWELL DATE 5/16/84
ENGR [illegible] DATE 6/14/84
APPVD [illegible] DATE [illegible]

COROMETRICS® MEDICAL SYSTEMS, INC. WALLINGFORD, CONNECTICUT

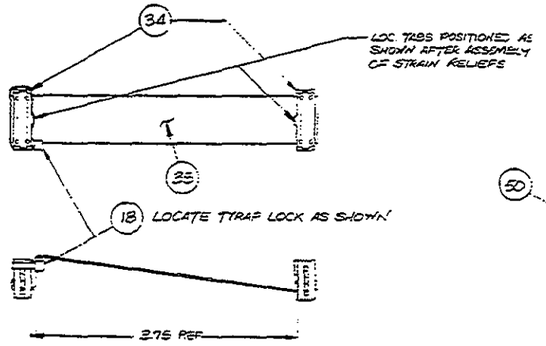
TITLE CAT. Nº. 2115AAX, 2115AHX 2115ADX, 2115AEX, 2115ABX — -115- DATA ENTRY KEYPAD

MATERIAL [illegible] FINISH [illegible]

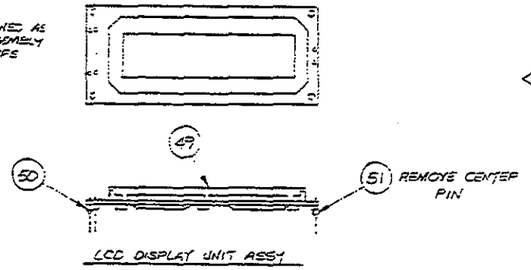
SIZE D | DRAWING NUMBER 5954TAB | REV *

SCALE [illegible] SHEET 1 OF 2

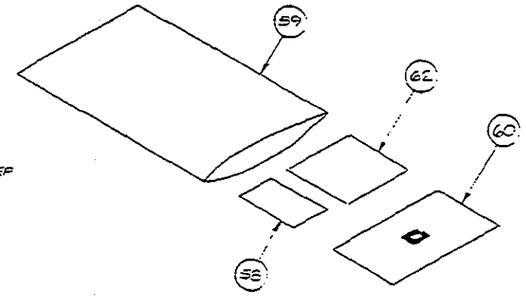
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
	SEE SHEET 1		



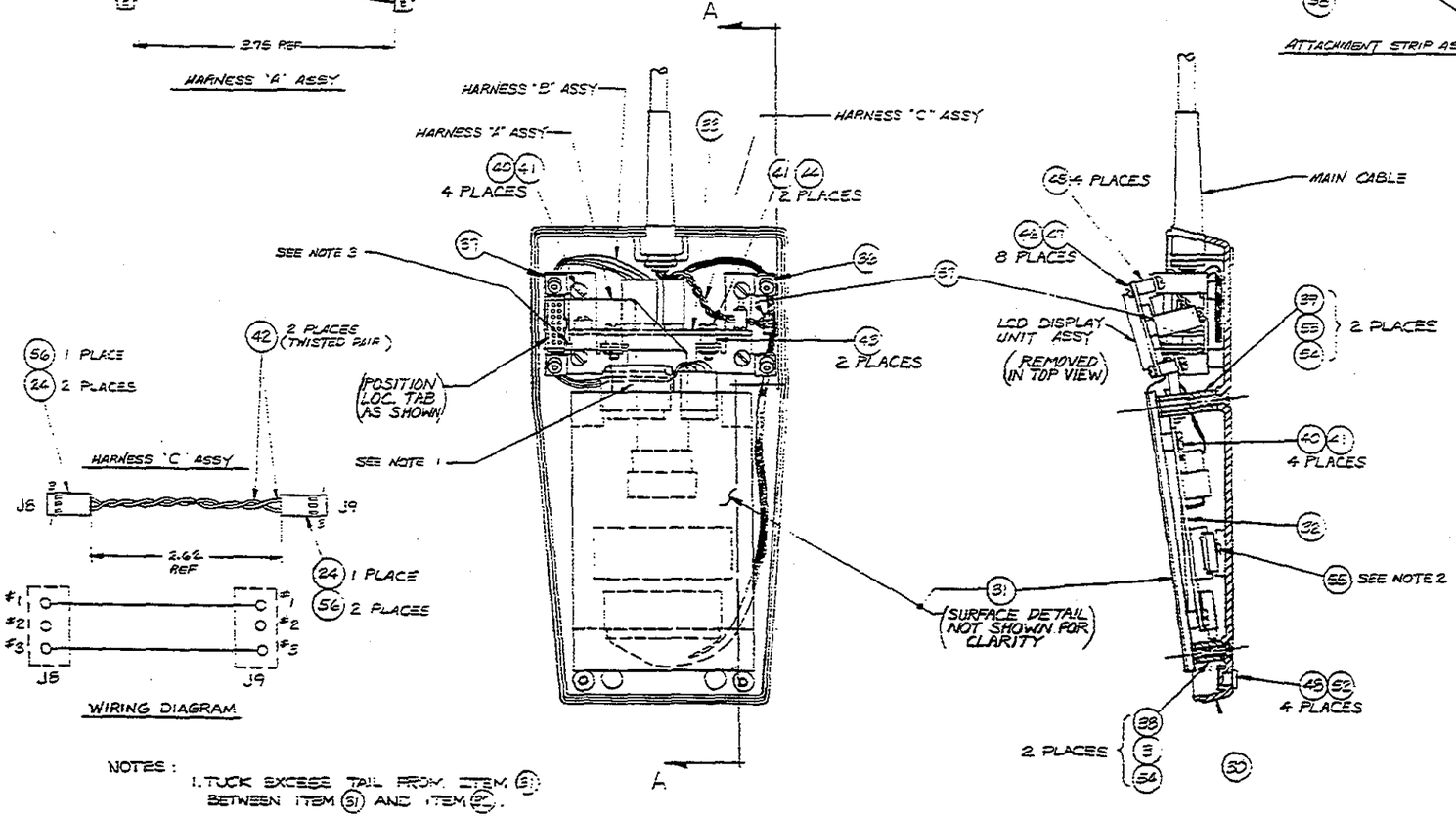
HARNESS 'A' ASSY



LCD DISPLAY UNIT ASSY



ATTACHMENT STRIP ASSY



NOTES :

1. TUCK EXCESS TAIL FROM ITEM (31) BETWEEN ITEM (31) AND ITEM (32).
2. CENTER ITEM 55 UNDER PROCESSOR IC AND STICK TO SURFACE OF ITEM 32.
3. LOCATE TY-RAP OF HARNESS ASSY "A" AS SHOWN.
4. FOR OVERALL WIRING DIAGRAM SEE DWG D5983AA.

QTY.	ITEM	REF. DESIG.	PART Nº	DESCRIPTION
1	63		A7439AA	LABEL, CAUTION
1	62		B6126BA	FASTENER STRIP
.250 FT.	61	NOT SHOWN	4:0012	TAPE
1	60		A6136AA	LABEL
1	59		4:0068	POLY BAG (4 x 6)
1	58		B6126AA	FASTENER STRIP
1	32		C5809E	KEYPAD PROC ASSY-SPA
1	31		D5840JA	KEYPAD COMPOSITE-SPA
.083 FT.	57		310011	TAPE 3/4 W. 3M #854
1	32		C5809D	KEYPAD PROC ASSY-GER
1	32		C5809C	KEYPAD PROC ASSY-FRN
1	31		D5840H2	KEYPAD COMP-GERMAN
1	31		D5840G2	KEYPAD COMP-FRENCH
2	56		211315	CONN. SCKT HOUSING
.167 FT.	55		310036	FOAM TAPE
1	32		C5809B	KEYPAD PROCESSOR ASSY-UK
1	31		D5840FA	KEYPAD COMPOSITE - UK
4	54		285003	WASHER #4, NYLON
2	53		284316	SCREW, OVAL HD #4-40 X 1/2 LG
0	52		160050	LOCTITE, SUPERBONDER
1	51		211316	CONN, 3CKT, HEADER
1	50		212207	HEADER 2x7 STRAIGHT
1	49		390050	LCD DISPLAY
4	48		280195	RUBBER BUMPERS
8	47		285027	LOCK WASHER, SPLIT, #2
8	46		281209	SCREW, #2-56 BIND. HD. 3/16 LG
4	45		280189	STANDOFF, NYLON, #2-56 x 1/4 LG
2	44		284010	SCREW, #4-40 BIND. HD., 3/16 LG
2	43		280000	STANDOFF, ROUND, #4 x 1/2 LG.
.583 FT.	42		600059	WIRE, #26 WHITE
10	41		285029	LOCK WASHER, SPLIT, #4
8	40		284007	SCREW, #4-40, BIND. HD. 1/4 LG
2	39		280135	STANDOFF, HEX, #4-40 x 3/16 LG
2	38		280190	STANDOFF, HEX, #4-40 x 1/2 LG
1	37		C5961BA	DISPLAY BRACKET, L.H.
1	36		C5960BA	DISPLAY BRACKET, R.H.
.417 FT.	35		600649	CABLE RIBBON 14 COND.
2	34		212209	CONN, 14CKT + STR. REC.
1	33		C5813A	AUX. PCB ASSY
1	32		C5809A	KEYPAD PROCESSOR ASSY
1	31		D5840EA	KEYPAD COMPOSITE
1	30		D5956BA	BASE, KEYPAD HOUSING

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MATERIAL		DRAWN R.A.R.	2-18-93
		CHECKED M. Lidy	3-1-93
		ENGINEER M. Lidy	7-4-93
FINISH		APPROVED	6.6.93
SEE TABLE 2115		UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCH	
NEXT ASSY	USED ON	FRACTIONS ±	
APPLICATION		2 PLACE DECIMAL ±	
		3 PLACE DECIMAL ±	
		ANGLES ±	

CORPORATE INDUSTRIAL PARK, WALLINGFORD, CONNECTICUT

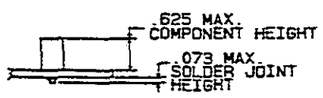
COROMETRICS MEDICAL SYSTEMS, INC.

TITLE CAT. NOS. 2115AAX, 2115AHX, 2115ADX, 2115AEX, 2115ABX -115- DATA ENTRY KEYPAD

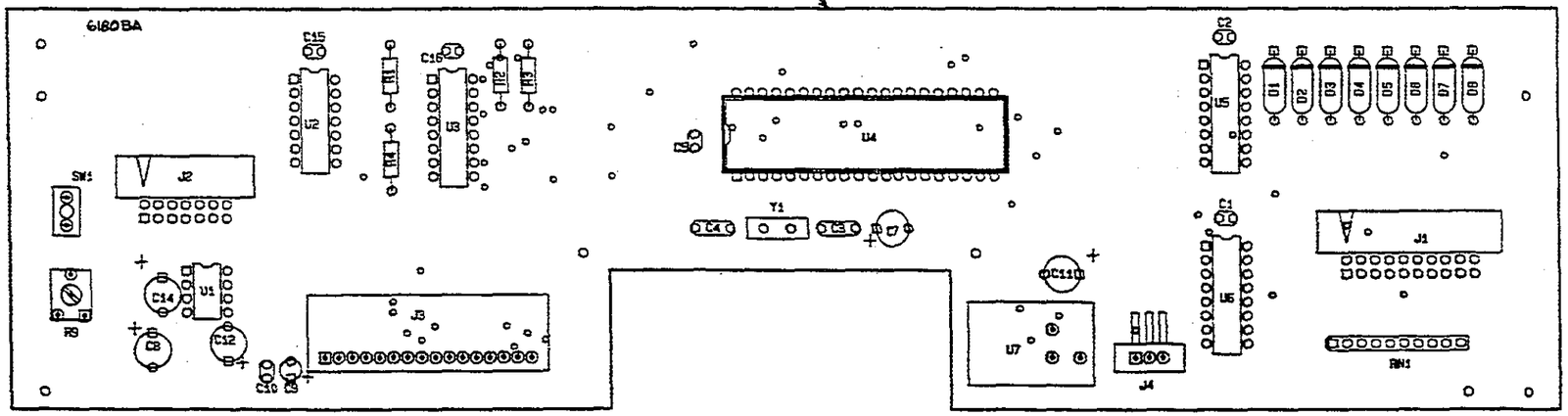
SIZE	DRAWING NUMBER	REV
D	5954TAB	*

SCALE FULL | 1 REQ'D. | SHEET 2 of 2

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
02	5893	REDRAWN FOR CLARITY	SAS	7-87		



NOTES:
1-OBSERVE POLARITY AND ORIENTATION MARKINGS OF ALL COMPONENTS.
2-INSERT COMPONENTS FULLY INTO BOARD.
3-FOR SCHEMATIC DRAWING SEE 6180AC
4-FOR PARTS LIST SEE P/L 6180A.



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DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS = ~
2 PLACE DECIMALS = ~
3 PLACE DECIMALS = ~
ANGLES = ~

D7102A	2116
NEXT ASSY	USED ON
APPLICATION	

DRAWN B LIBBY 2-20-86
CHECKED [signature] 3/21/86
ENGINEER M. Kelley 3/21/86
APPROVED DR Brandon 4/24/86

MATERIAL ~
FINISH ~

COROMETRICS® MEDICAL SYSTEMS, INC.
BUSINESS INDUSTRIAL PARK
WALLINGFORD CONNECTICUT

TITLE
KEYBOARD PROCESSOR BOARD ASSEMBLY

SIZE	DRAWING NUMBER	REV
C	6180A	02

SCALE 1.5:1 SHEET 1 OF 1

COPOMETRICS MEDICAL SYSTEMS INC.	TITLE 115 DUAL CARDIOTACH BOARD ASSY.	P.L 6802H	REV. 02

ITEM	DWG SIZE	PART NUMBER	REF DESIGNATION	DESCRIPTION	QTY
105	D	6802AB		BLOCK DIAGRAM	0

COROMETRICS MEDICAL SYSTEMS INC.	TITLE KEYBOARD PROCESSOR BOARD ASSY	61808	00

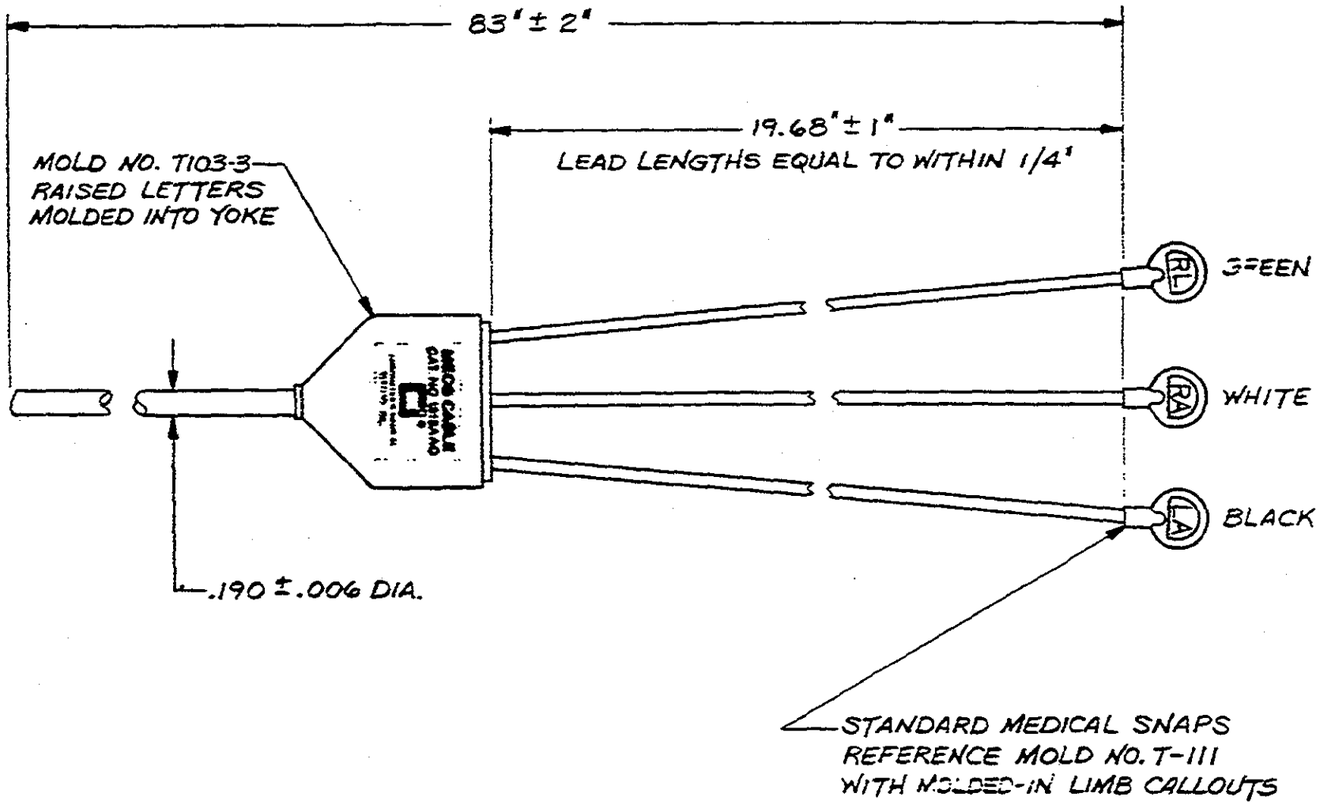
ITEM	DWG SIZE	PART NUMBER	REF DESIGNATION	DESCRIPTION	QTY
22		487153	U1	IC, 7660	1
23	B	7112B	U4	PREPROGRAMMED I.C. ASSY.	1
24		514013	SW1	SWITCH, PB	1
25	D	6180DA	----------	P.C. BOARD FAB	1
26		471120	R5,6,7,8,10,11	RES.,100Ω,1/4W,5 %	6
27		486677	U8,9	I.C.,74HCT244	2

REVISION

DRAWN	CHECKED	APPROVED	NEXT ASSY.	MOUNT	PG 2 OF 2
C. ERNANDEZ		M. Kelly	7102A	2116	

12-42

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
00	NEW WSN	1.29.85	



NOTES: (UNLESS OTHERWISE SPECIFIED)

1-ASSEMBLY COLOR TO BE GRAY BROWN MUNSEL N3.75 (PB, 0.01) EXCEPT SNAPS.

2-ASSEMBLY TO BE FULLY SHIELDED (BRAIDED 36GA, SOLDERABLE).

3-LEADS NOT DETACHABLE

4-WIRES AT UNTERMINATED END TO BE 24GA STRANDED, SOLDERABLE.

INSULATION	LEAD
WHITE	RA
BLACK	LA
RED	RL

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D65204	115
NEXT ASSY	USED ON
APPLICATION	

MATERIAL

FINISH

DRAWN WSNEDDITT DATE 1/29/85
CHECKED K. Dinsse DATE 3-18-85
ENGINEER S. Cannon DATE 3-18-85
APPROVED S Cannon DATE 4-8-85

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± X
2 PLACE DECIMALS ± X
3 PLACE DECIMALS ± X
ANGLES ± X

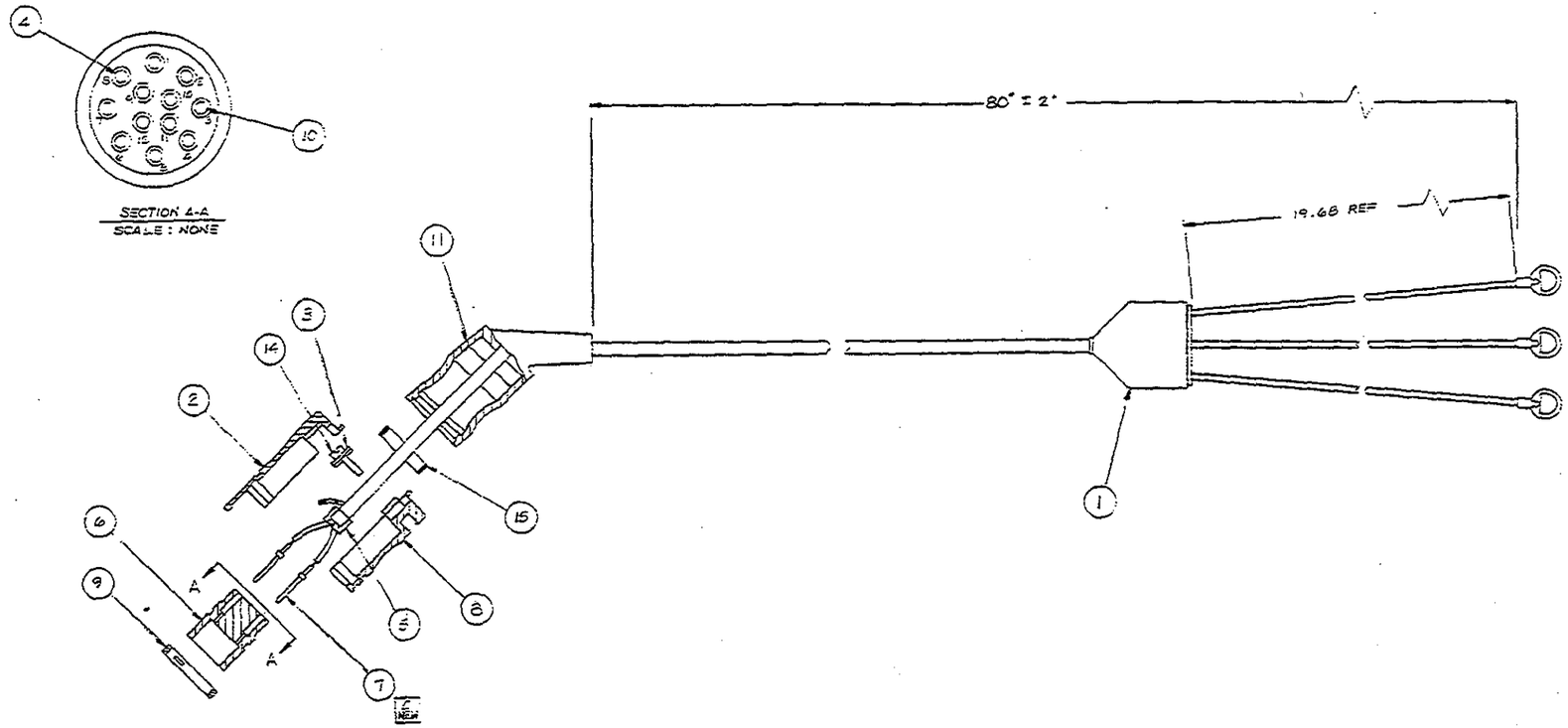
COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE MECG CABLE W/O CONNECTOR - 115

SIZE	DRAWING NUMBER	REV.
B	6520AA	00

SCALE X SHEET 1 OF 1

REVISIONS				
STR	DESCRIPTION	DATE	APPROVAL	
00	NEW RELEASE	ACM	7/1/86	
01	ECN 4701	ACM	7/24/86	
02	ADDED ITEMS E,16,17 ECN 5196	MCM	6/2/88	
00	ECN 5546 "C" NEW: ITEM 14 - P/N MAS 210148, ITEM 10 P/N MAS 210155	MCM	1/1/92	



NOTES: (UNLESS OTHERWISE SPECIFIED)

REF
1- ASSEMBLY COLOR : GRAY BROWN MUNSEL N2.75 (PB,0.01) EXCEPT SNAPS.
2- ASSEMBLY TO BE FULLY SHIELDED (BRAIDED 36GA, SOLDERABLE).
3- LEADS NOT DETACHABLE.
4- WIRES AT UNTERMINATED END TO BE 24GA STRANDED, SOLDERABLE.

INSULATION	LEAD
WHITE	RA
BLACK	LL
RED	RL

5- FILL UNUSED HOLES IN HOUSING WITH CONTACTS, ITEM 7.
6- TIE SHIELD TO PIN 8 WITH ITEM 4.

QTY	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
1	17	NOT SHOWN	666214A	LABEL, MECG CABLE
1	16	NOT SHOWN	666414A	GARMENT CLIP
1	15		210176	RING, BRASS 21 X 5
2	14		210182	SCREW CLAMP, M2.6 X 10
1	13	NOT SHOWN	410112	AIRCAP BAG 6 X 6½
1'	12	JUMPER	605106	WIRE, #24 AWG, BLUE
1	11		210184	GRIPPER, 5-7MM
11	10		210226	CONTACT, MALE 16mm
1	9		210178	RING, PLASTIC 21.5 X 4
1	8		210186	HALF-SHELL W/CLAMP 5-7MM
11	7		210227	CONTACT, MALE 16.5mm
1	6		212133	PLUG, 12CKT GRT/SRN&D
1½"	5		608048	SHRINK TUBING
1.5"	4	SHIELD	605105	WIRE, #24 AWG, GRN
1	3		210181	CLAMP, 3-7MM
1	2		210179	HALF-SHELL W/TONGUE
1	1		652044	MATERNAL ECG CABLE

WIRE COLOR	TO PIN NO.	DESCRIPTION
SHIELD (GREEN)	8	SHIELD
JUMPER (BLUE)	3 TO 4	MECG
RED	12	RL
BROWN	6	LA
WHITE	7	RA

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PL681IA	115	MATERIAL	~
PL681GA	115	FINISH	~
NEXT ASSY	USED ON		
APPLICATION			

DRAWN: MCMCDERMOTT DATE 1/26/88
CHECKED: C. SUMMERS DATE 2-5-92
ENGINEER: SC DATE 4-3-95
MANAGER: SC DATE 4-3-95
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES °

COROMETRICS® MEDICAL SYSTEMS, INC.
WALLINGFORD, CONNECTICUT

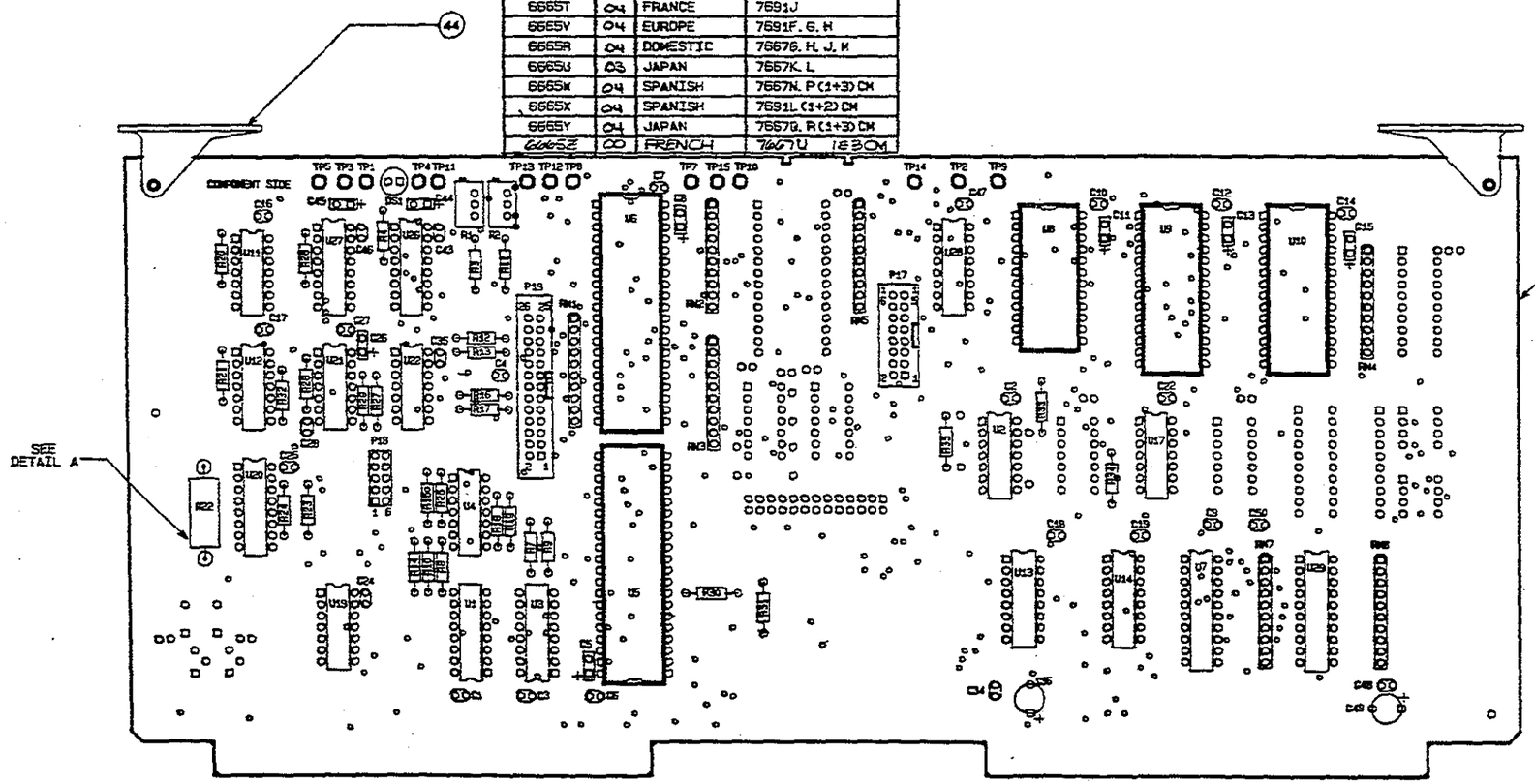
TITLE: CAT. № 1213AAC
115-MECG CONNECTOR CABLE

SIZE	DRAWING NUMBER	REV
D	6520C	00

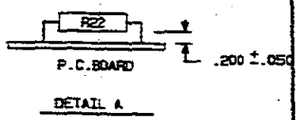
SCALE ~ SHEET 1 OF 1

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
*	5873	SEE ECN	SAS	7-20-87		
∞	5902	'E' NEW	VS	8/87	BS	DB

PART NO.	REV.	DESCRIPTION	NEXT ASSY
6665S	04	GERMANY	7691K
6665T	04	FRANCE	7691J
6665V	04	EUROPE	7691F. G. H
6665R	04	DOMESTIC	7667G. H. J. M
6665U	03	JAPAN	7667K. L
6665W	04	SPANISH	7667N. P (1+3) CM
6665X	04	SPANISH	7691L (1+2) CM
6665Y	04	JAPAN	7667G. R (1+3) CM
6665Z	∞	FRENCH	7667U 1&3CM

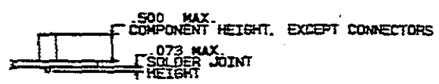


KEY TABLE	
CONN	POSITION
P17	NONE
P18	PIN1
P19	NONE



DETAIL A

NOTES:
1-OBSERVE POLARITY AND ORIENTATION MARKINGS OF ALL COMPONENTS.
2-INSERT COMPONENTS FULLY INTO BOARD.
3-FOR SCHEMATIC DRAWING SEE 6665 TAB
4-STORE IN ANTISTATIC BAG P/N 410080 - NOT SHOWN.
5-FOR PARTS LIST SEE P/L 6665R. S. T. U. V. W. X. Y



DETAIL B

PROPRIETARY & CONFIDENTIAL
THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS

DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

SEE TABLE	115
NEXT ASSY	USED ON
APPLICATION	

DRAWN JCH DATE 12-10-85
CHECKED DATE 12/10/85
ENGINEER SC DATE 12-11-85
APPROVED SC DATE 12-11-85

MATERIAL
FINISH

COROMETRICS® MEDICAL SYSTEMS, INC.
WALLINGFORD, CONNECTICUT

TITLE
115 RECORDER BRD ASSY
DUAL CARDIOTACH
W/O RS232

SIZE	DRAWING NUMBER	REV.
C	6665TAB	*

SCALE 1.25/1 SHEET 1 OF 1

COROMETRICS MEDICAL SYSTEMS INC.			TITLE 115 RECORDER BOARD ASSY DUAL CARDIOTACH W/O RS232 FRENCH 1 & 3CM		PL 6665Z	REV 01
ITEM	DWG SIZE	PART NUMBER	REF DESIGNATION	DESCRIPTION		QTY
63		471301	R22	RES 180 OHM 1W 5%		1
64						
65						
66						

SEE SHT 1

REVISION

DRAWN 8/24/87 VSadala | CHECKED BS 8-24-87 | APPROVED 8-24-87 | NEXT ASSY SEE DWG | MODEL 115 | PG 4 OF 4

COROMETRICS MEDICAL SYSTEMS INC	TITLE 115 RECORDER BOARD ASSY DUAL CARDIOTACH W/O RS232 FRENCH 1 & 3cm	PL 6665Z	REV 01

ITEM	DWG SIZE	PART NUMBER	REF DESIGNATION	DESCRIPTION	QTY
42		215004	U9,10	SOCKET, IC, 28 PIN DIP	2
43		5808JA	———	P.C. BOARD	1
44		280177	———	EJECTOR,CARD,RED	2
45		390040	DS1	L.E.D., RED	1
46		487553	U8	IC, 6116LP-4 RAM	1
47		215006	U8	SOCKET, IC, 24 PIN DIP	1
48		152016	C5,8,11,13,15,26,44 45	CAP 8.2UF 15V 15% TANT	8
49		471115	R12	RES 330 OHM 1/4W 5%	1
50					
51		471182	R13	RES 150 OHM 1/4W 5%	1
52		471174	R15	RES 2.4M 1/4W 5%	1
53		471163	R3,11	RES 200 OHM 1/4W 5%	2
54		475022	R1,2	POT 50K	2
55					
56	A	6672F	U9	PREGRM IC ASSY (FRN 1&3)	1
57	A	6673F	U10	PREGRM IC ASSY (FRN 1&3)	1
58		486540	U17	IC, 74LS08	1
59					
60					
61					
62					

REVISION: SEE SHT 1

DRAWN 8/24/87 VSadala | CHECKED BS 8-29-87 | APPROVED 8-24-87 | NEXT ASSY SEE DWG | 115 | SHT 3 OF 4

COROMETRICS MEDICAL SYSTEMS INC.	TITLE 115 RECORDER BOARD ASSY DUAL CARDIOTACH W/O RS232 FRENCH 143CM	P.L 6665Z	REV. 01

ITEM	DWG SIZE	PART NUMBER	REF DESIGNATION	DESCRIPTION	QTY
21		472079	R17	RES 3.32K 1/8W 1%	1
22		474005	RN2,3,8	RES.NTWK. 4.7K 9RES	3
23		474007	RN4,5,7	RES.NTWK. 10K 9RES	3
24		486470	U22	IC, 74LS04	1
25		486472	U2	IC, 74LS10	1
26		486484	U26	IC, 74LS165	1
27		486530	U19	IC, 74LS32	1
28		486535	U7	IC, 74LS373	1
29		486538	U29	IC, 74LS541	1
30		486541	U1,3	IC, 74LS163	2
31		486542	U27,28	IC,74LS174	2
32		486561	U13,14	IC,74LS138	2
33		486601	U12,21	IC, CD4011	2
34		486603	U11	IC, CD4024	1
35		487038	U4	IC, LM339	1
36		487520	U5	IC, 8085	1
37		487526	U20	IC, SAA1027	1
38		471145	R31	RES 24K 1/4W 5%	1
39		487567	U6	IC, 8155H	1
40		474012	RN1	RES.NTWK. 1.8K 9RES	1
41		215005	U5,6	SOCKET, IC, 40 PIN DIP	2

REVISION: SEE SHT 1

DRAWN 8/24/87 VSadeke	CHECKED BS 8-24-87	APPROVED SC 82487	NEXT ASSY SEE DWG	MODEL 115	PG. 2 OF 4

COROMETRICS MEDICAL SYSTEMS INC		115 RECORDER BOARD ASSY DUAL CARDIOTACH W/O RS232 FRENCH 1 & 5cm	P.L. 66652	REV. 01

ITEM	DWG SIZE	PART NUMBER	REF DESIGNATION	DESCRIPTION	QTY.
1		152048	C49	CAP 68UF 15V 10Z TANT	1
2		152076	C36	CAP 15UF 20V 20Z TANT	1
3		154023	C1-3,6,7,9,10,12,14, 16-19,C22,24,27,34, 35,43,46-48,50	CAP .01UF 50V 10Z CER	23
4		154034	C4,25,28	CAP .1UF 50V 10Z CER	3
5					
6					
7		212009	P18	HEADER 2 x 5	1
8		212361	P17	HEADER 2 x 8 STR.RIB	1
9		212810	P19	HEADER 2 x 13 STR.RIB	1
10		216004	TP1-5, TP7-15	TERMINAL,TURRET 1/8	14
11		471102	R26	RES 1M 1/4W 5%	1
12		472006	R16	RES 1K 1/8W 1%	1
13		471107	R9,10	RES 1.5K 1/4W 5%	2
14		471108	R18,25	RES 100K 1/4W 5%	2
15		471109	R21,27,29,32-34	RES 10K 1/4W 5%	6
16		471113	R14,19,23	RES 1K 1/4W 5%	3
17		471120	R24	RES 100 OHM 1/4W 5%	1
18		471126	R7,20,28,30,35	RES 4.7K 1/4W 5%	5
19		471140	R4	RES 220 OHM 1/4W 5%	1
20		471173	R8	RES 3.3K 1/4W 5%	1

00 NEW PER ECN 5902 6/66
01 ECN 4/14/66

8/24/67 BS 8-24-67 SE 8-24-67 SEE DWG 115 SG 1 OF 4